CDX-R79L

SERVICE MANUAL

UK Model
French Model

SPECIFICATIONS

Model Name Using Similar Mechanism	CDX-R79
CD Drive Mechanism Type	MG-200A-33

General

Power requirements
12 V DC car battery (negative ground)
Current drain
800 mA (CD playback)
2 A (during disc loading or eject)
Operating temperature
−10°C-50°C (15°F-120°F)
Dimensions
CD player:
Approx. 178 × 50 × 149 mm (w/h/d) (7 1/8 × 2 × 5 7/8 in.)
Weight
Approx. 1.6 kg (3 lb 8 oz)
Tone controls
Bass ±10 dB (100 Hz)
Treble ±10 dB (10 kHz)
Supplied accessories
Mounting hardware (1 set)
Optional accessories
Mounting kit
Cleaning cloth XP-CD1

CD player section

System
Compact disc digital audio system
Frequency response
5-20,000 Hz ±3 dB
Harmonic distortion
0.015% (1 kHz)
Dynamic range
85 dB
Signal to noise ratio
85 dB
Wow and flutter
Below measurable limit
Laser Diode Properties
Material
GaAlAs
Wavelength
780 nm
Emission Duration
Continuous
Laser out-put Power
Less than 44.6 μW*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Tuner section

Tuning range	FM: 87.5-108 MHz MW: 531-1,602 kHz LW: 153-279 kHz
Intermediate frequency	FM: 10.7 MHz, AM: 450 kHz
Antenna terminal	External antenna connector
Usable sensitivity	FM:12 dBf (1.1 μV/75 ohms)
	MW: 35 μV LW: 48 μV
Selectivity	75 dB at ±400 kHz
Signal-to-noise ratio	FM: 70 dB (monaural)/65 dB (stereo) AM (MW/LW): 55 dB
Harmonic distortion at 1 kHz	FM: 0.3% (monaural)/0.5% (stereo) AM (MW/LW) 0.3%
Stereo separation	35 dB at 1 kHz
Frequency response	30 Hz-15,000 Hz

Design and specifications subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

SONY®

TABLE OF CONTENTS

Title	Section	Page
SPECIFICATIONS		1
Notes on Chip Component Replacement		2
Notes on Handling the Optical Pick-up Block or Base Unit		2
SECTION 1. GENERAL		
Location of Controls		3
SECTION 2. SERVICING NOTES		
Removing the Flat Package IC		4
Flexible Circuit Board Repairing		4
Cautions for Repair		5
Test Mode		5
SECTION 3. CIRCUIT DESCRIPTION		7
IC1 Pins (CXP5068H-008Q)		7
IC501 Pins (CXP5048H-188Q)		8
SECTION 4. MECHANICAL ADJUSTMENTS		11
SECTION 5. ELECTRICAL ADJUSTMENTS		11
SECTION 6. DIAGRAMS		
6-1. Block Diagram (MD Section)		15
6-2. Block Diagram (Main Section)		17
6-3. Semiconductor Lead Layouts		19
6-4. Printed Wiring Boards (MD Section)		20
6-5. Schematic Diagram (MD Section)		23
6-6. Circuit Boards Location		26
6-7. Printed Wiring Boards (Main Section)		27
6-8. Schematic Diagram (Main Section)		31
6-9. Schematic Diagram (Tuner Unit)		35
6-10. IC Block Diagrams		36
6-11. Waveforms		38
SECTION 7. EXPLODED VIEW		40
SECTION 8. ELELCTRICAL PART LIST		46
SUPPLEMENT-1		
SUPPLEMENT-2		

SERVICING NOTE

Flexible Circuit Board Repairing

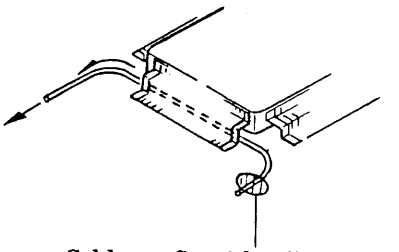
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

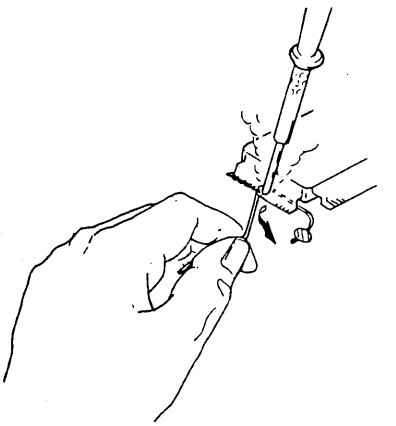
Removing the Flat Package IC

1. Prepare an enameled wire (0.2mm diameter) and apply it to the back side of the IC pins as illustrated below.



Solder or fix with adhesive tape.

2. Heat the IC pin with the soldering iron and draw the enameled wire so that the IC pin is removed from the pattern as illustrated.

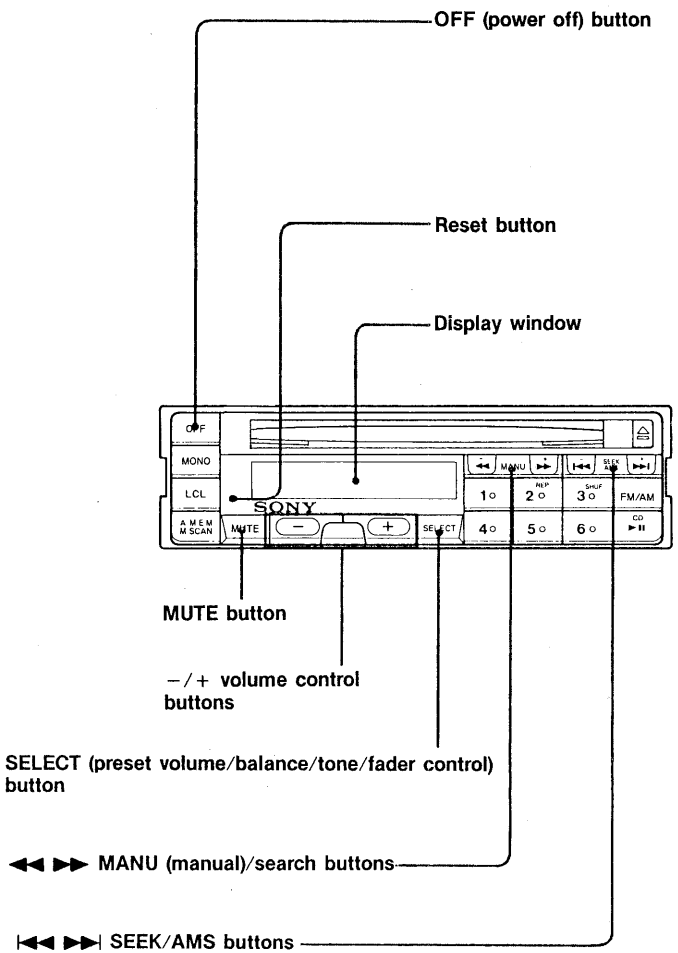


SAFETY-RELATED COMPONENT WARNING!!

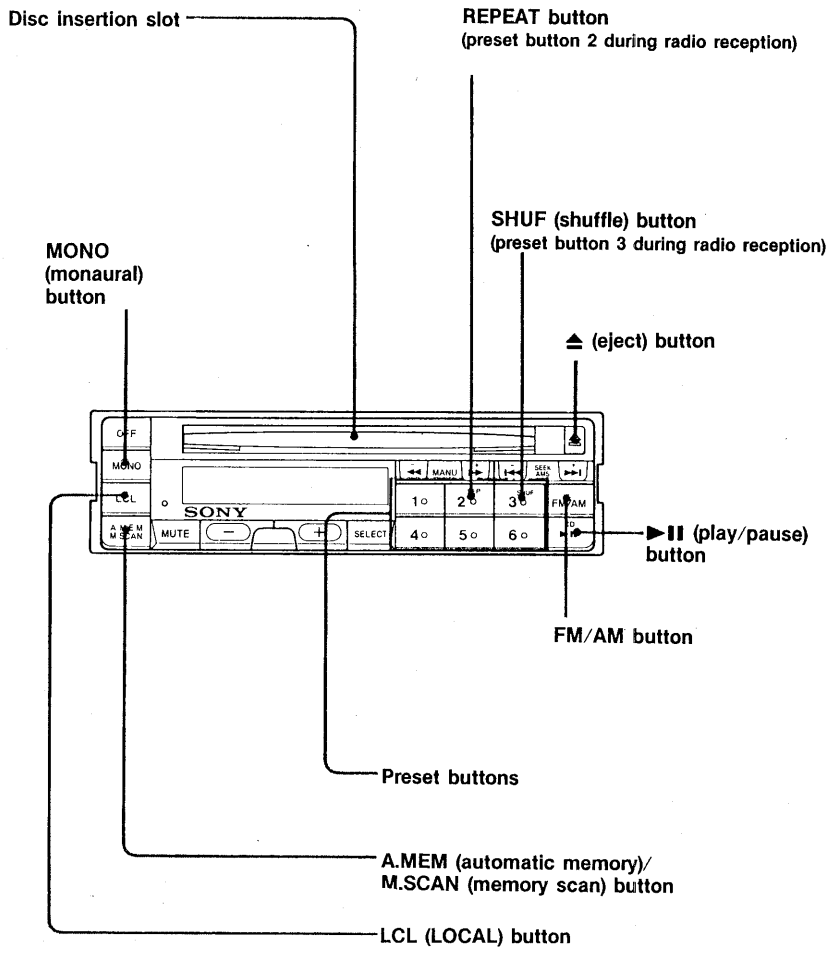
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Location of Controls

General section



Radio section/CD player section



SECTION 2
SERVICING NOTES

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 mm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μW*

  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

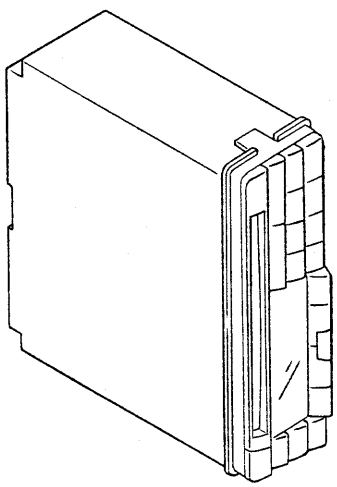
During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

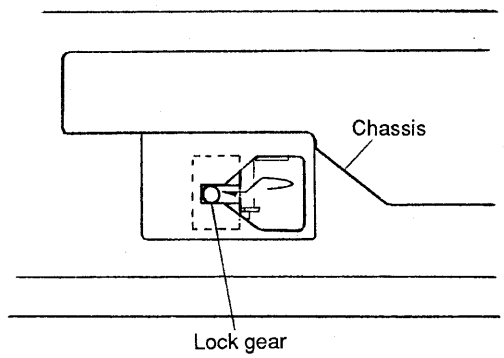
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Cautions for Repair

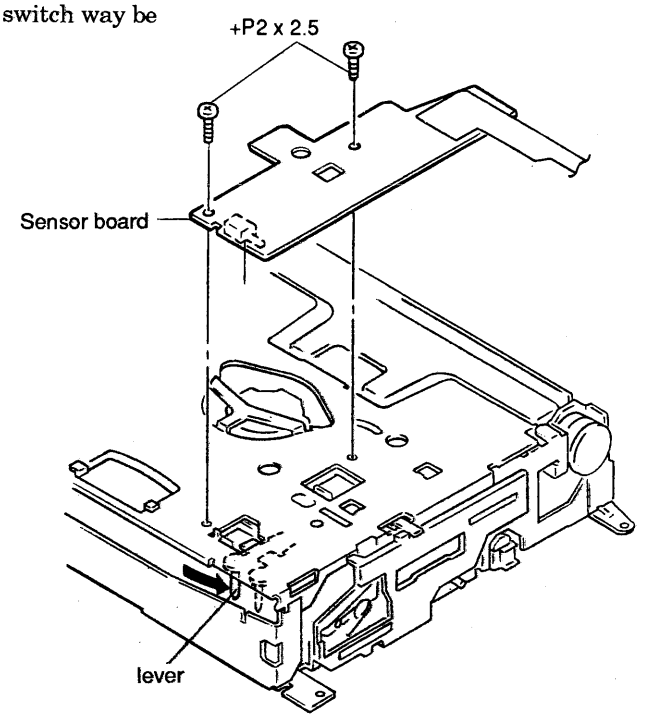
- Never reverse the set when inserting or removing the disc.
  When checking the boards, put the set as illustrated below.



- In play mode, the disc section is connected to the chassis section only through the damper so that it is not affected by vibration.
  The lock gear is fixed in the notch of the chassis only in STOP mode.
  If the lock gear is not firmly fixed in the notch, the disc cannot be removed or inserted. In such a case, rotate the gear near the sled motor by your fingers to fix the lock gear in the notch.



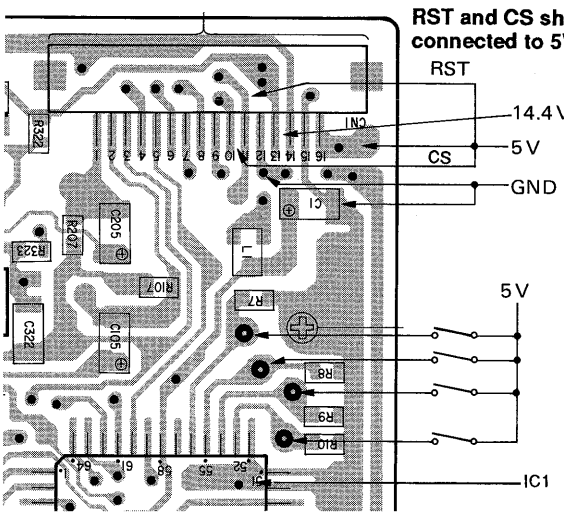
Note for reassembling
When reassembling SENSOR BOARD place the board with keeping the lever pressed in the direction of arrow. If attach it forcibly, the switch way be broken.



Test mode is entered in two ways: test mode by the main microcomputer IC501 and test mode by the mechanical control microcomputer (ICI)

A. Test mode by the mechanical control microcomputer

Connection



If a disc is in the system during the self diagnosis (automatic or manual), the disc is ejected.

A-1 Automatic self-diagnosis test

1. Connect pin 56 of IC1 to +5V, turn the power switch on, and press the reset key.
2. Insert the disc: the processes below are executed. (Error messages are displayed only in Test mode by the main microcomputer.)

Loading start

The loading time is monitored. If 16 seconds elapse, error message E-1 is displayed.

Play, starting with the first music

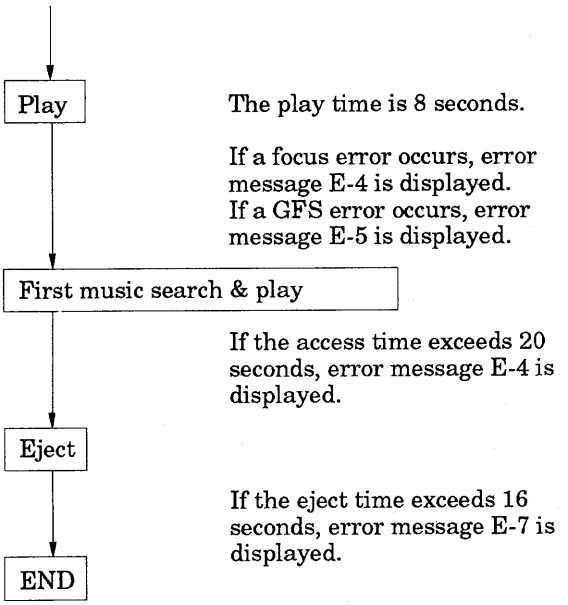
The sled motor is moved toward the internal circumference. If the limit switch is not turned on in 15 seconds, error message E-2 is displayed. If no focus is obtained, the disc is ejected.

Last music search and play

If the access time exceeds 20 seconds, error message E-3 is displayed.

Stop

The stop time is 5 seconds.


Play
The play time is 8 seconds.
If a focus error occurs, error message E-4 is displayed.
If a GFS error occurs, error message E-5 is displayed.
First music search & play
If the access time exceeds 20 seconds, error message E-4 is displayed.
Eject
If the eject time exceeds 16 seconds, error message E-7 is displayed.
END

3. If pin (54) is connected to +5V in the operation mode, the operation mode continues to be valid until the voltage has become 0V.
   If pin (53) is connected to +5V during operation mode, ejecting is executed and loading is executed again after two seconds.

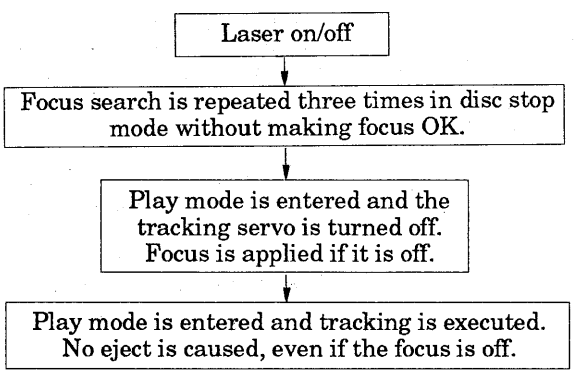
A-2 Manual self-diagnosis test

The processes executed are identical to those of the automatic self-diagnosis test.

1. Connect pin (53) to +5V, turn the power switch on and press the reset key.
2. Insert a disc.
   Instantaneously set pin (54) to "H" to proceed to the next step.
   The music number is advanced if pin (55) is instantaneously set to "H", and the music number is decremented if pin (56) is instantaneously set to "H".

A-3 Pick-up test

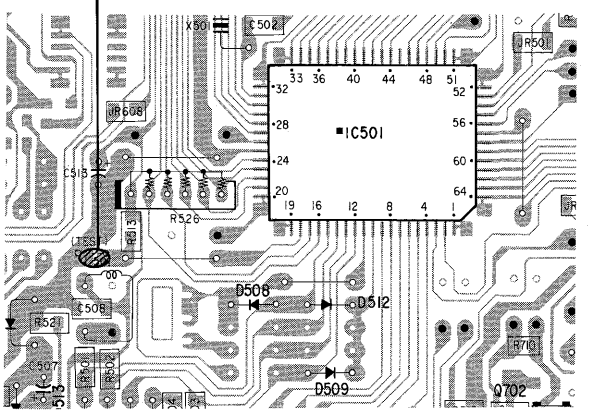
1. Connect pins (53) and (56) to +5V, turn the power switch on, and press the reset key. (If the power is turned on with SW621 turned on, the operations can be obtained without any disc.)
2. Insert a disc and check whether play mode is entered when loading is completed.
3. If "H" is applied instantaneously to pin (54), the next step is started.


Laser on/off
Focus search is repeated three times in disc stop mode without making focus OK.
Play mode is entered and the tracking servo is turned off. Focus is applied if it is off.
Play mode is entered and tracking is executed. No eject is caused, even if the focus is off.

4. Each process in Step 3 can be turned on or off by setting pin 55 instantaneously to "H".

B. Test mode by the main microcomputer

The pattern is to be connected here.
Connection point



1. Turn the power switch on and press the FM/AM button.
2. Connect pin 18 of IC501 to ground and press the reset key.
3. Insert a disc; the processes identical to those of the automatic self-diagnosis best by the mechanical control microcomputer are executed.

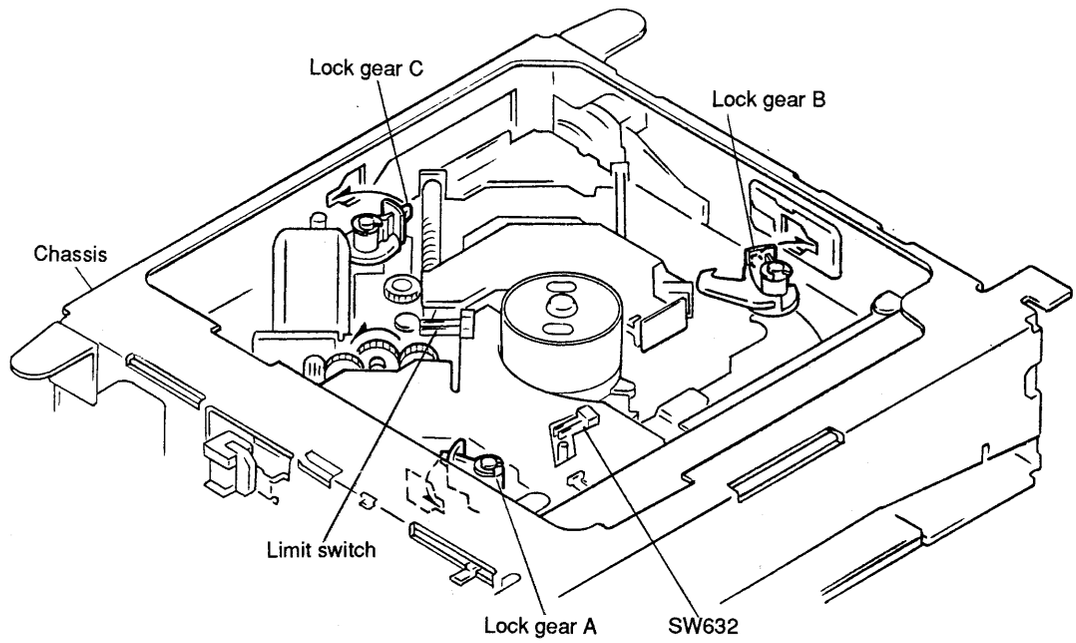
B-1 Check without a disc

1. Turn the power switch on and press the FM/AM key.
2. Connect pin 18 of IC501 to ground and press the reset key. In this status, check the spindle motor, pick-up focus, and tracking and sled motor operations. Also visually check the laser is on.
   a) When the key [▶II] is pressed, the spindle motor is turned on, the laser is turned on, and the pick-up operation for focus search and tracking is executed. If the key [▶II] is pressed again, STOP mode is entered.
   b) Press the [MANU] key to turn the sled motor on. If a key of the identical direction is pressed again, STOP mode is entered.

   During the above operations, all the LEDs are on.

SECTION 3
CIRCUIT DESCRIPTION

When the optical section moved toward the inner circumference and the limit switch is turned on, the sled motor starts to rotate the gear in the direction of the arrow and the MD section is fixed to the chassis.
When the lock gear is fixed to the chassis, SW632 is turned on. When SW632 is turned on, the loading motor is rotated to eject the disc.



IC1 PINS (CXP5068H-008Q)

Pin No.	Description
1.	Serial data output to IC502 and IC503
2.	Clock output for the serial data transfer to IC502 and IC503
3.	Latch output to IC502 and IC503
4.	Loading start switch input; 8cm disc eject complete switch input. (Turns on at "H".) (Switch C)
5.	Disc chucking complete switch input (Switch F). (Turns on at "L".)
6.	Chucking start switch while loading is in progress (plunger on timing) (Turns on at "H").
7.	Input signal for 8cm or 12cm disc detection. Signal input is upon completion of the 12cm disc eject or loading start sensor from that status. (The signal turns on at "H".) (Switch D)
8.	Input signal to the floating lock status (on or off) detection switch. (The signal is locked at "L".) (Switch Q)
9.	Input to the disc sensor (Disc detected if "H".) (Switch B)
10, 11.	GND
12.	Input to the GFS (frame sync lock status display). (Normal when "H".)
13.	SENSE signal input (IC502 and IC503 internal status input).
14.	FOK signal input (Focus OK Signal input).
15.	Output signal to detect high temperature. (Usually, set to "H".)
16.	Digital mute control output. (Mute on when "H".)

Pin No.	Description
17.	Emphasis control (on or off) output.
18.	Audio mute control output.
19.	PLL lock range control output (on when "H").
20.	IC503 clock control (on or off) output (on when "H").
21.	IC502 and IC503 reset control (on or off) output (on when "H").
22.	Laser control (on or off) output (on when "L").
23.	8cm disc gain control ("H". if 8cm)
24, 25.	GND
26.	VDD
27, 39.	Chip select signal input.
28, 38.	VDD
29, 30.	Crystal connection terminal.
31.	Reset signal input.
32.	Plunger control (on or off) output (on when "H").
33, 34.	Loading motor control output (Disc is loaded when the signal changes from "H" to "L" and ejected when the signal is changes from "L" to "H".
35.	"H" is output during test mode.
36.	"H" is output if an error occurs during test mode.
37.	Reserved.
40.	Input of the clock signal from the main microcomputer.
41.	Serial data output to the main microcomputer.
42.	Reserved.
43.	Serial data input from the main microcomputer.
44.	GND
45 - 48	Reserved.
49.	Input for detection of sound skip during test mode
50 - 52.	GND
53 - 56.	Test mode setting terminals.
57.	Reserved.
58.	VDD
59.	Subcode sync SO+Sl Signal input.
60.	Signal output to the main microcomputer, requesting communication.(Communication is requested when "L".)
61, 62.	Sled motor control output (Motor is locked when the signal changed from "L" to "H" and released when the signal changes from "H" to "L".)
63.	Subcode Q signal input.
64.	Clock output for the subcode Q signal input.

IC501 PINS (CXP5048H-188Q)

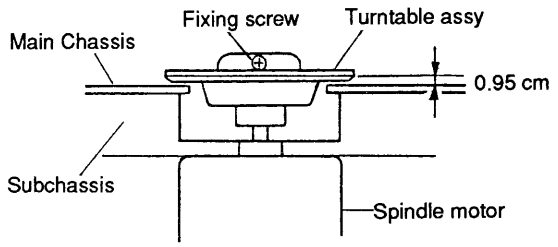
Pin No.	Description
1.	Reserved.
2.	Output for the button illumination power (on/off).
3.	Output for the illumination color selection.
4 - 11.	Key scan output port.
12 - 15.	Key scan input port.
16.	Data input terminal to the memory IC, clock IC, and PLL IC.
17.	Inputs the BUSY signal from the memory IC.
18.	Test terminal.
19.	Reserved.
20.	Outputs the chip enable signal to the LCD driver.
21.	Outputs the chip enable signal to the memory IC.
22.	Outputs clock for data communication with the memory IC, clock IC, and PLL IC.
23.	Outputs serial data to the memory IC and the PLL IC.
24.	Outputs the chip enable signal to the PLL IC.
25.	GND
26.	+B (5V)
27.	Outputs the chip enable signal to the electronic volume control IC.
28.	Outputs the serial data to the electronic volume control IC.
29.	Outputs the clock for data communication to the electronic volume control IC.
30.	Crystal connecting terminal.
31.	Crystal connecting terminal.
32.	Reset signal input.
33.	Outputs clock signal for communication with the mechanical control IC and the LCD driver.
34.	Outputs the serial to the mechanical control IC and the LCD driver.
35.	Inputs the communication requesting signal from the mechanical control IC.
36.	Inputs the data from the mechanical control IC.
37.	Outputs the chip select signal to the mechanical control IC. ("L" is output when communication is to be executed.)
38.	Outputs the reset signal to the mechanical control IC.

Pin No.	Description
39.	Inputs the wake-up signal.
40.	Reserved.
41.	Outputs the signal for turning ON/OFF of the mechanical deck section power on or off.
42.	Outputs the signal for switching between the CD and tuner audio signals.
43.	Reserved
44, 45.	Reserved.
46.	Reserved
47.	Inputs the stereo indicator signal.
48.	Inputs the DK signal detection.
49.	MUTE IN input terminal.
50.	Output terminal for clock IC adjustment (Adjustment start, shift).
51.	Output terminal for clock IC adjustment (adjustment of each digit).
52.	Inputs the clock IC data output requesting signal.
53.	Outputs the signal to turn all the LCDs off.
54.	Inputs the disc insert detecting signal.
55.	Inputs the REMOTE signal from the AUX set.
56.	Inputs the REMOTE signal from the output set.
57.	Inputs the OFF key detection.
58.	VDD
59.	Inputs the accessory on/off detection.
60.	Output terminal for switching the audio signals of the CD or tuner and the external input.
61.	Outputs the audio mute signal.
62.	Outputs the signal for turning the power for the tuner and audio on or off.
63.	Outputs the REMOTE signal to the AUX set.
64.	Outputs the REMOTE signal for AMP ON and the output set.

SECTION 4
ADJUSTMENTS MECHANICAL

Turntable Height Adjustment

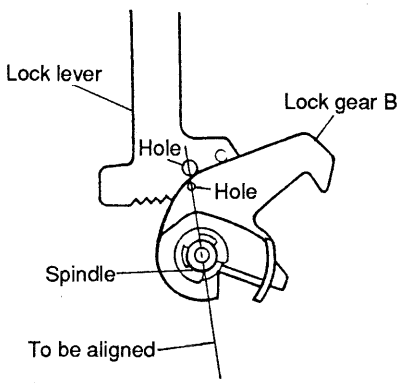
Loosen the fixing screws and adjust the height to the specification illustrated.



Lock Gears (A and B) Installing Adjustment

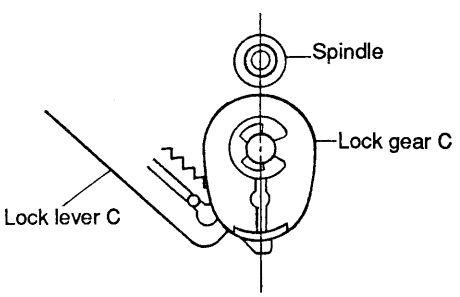
Since installing lock gears A and B is the same, only lock gear B is described below.

1. Rotate the gear near the motor with your fingers to move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix the lock gear so that the holes of the lock lever and the lock gear and the spindle are roughly aligned.



Lock Gear C installing Position Adjustment

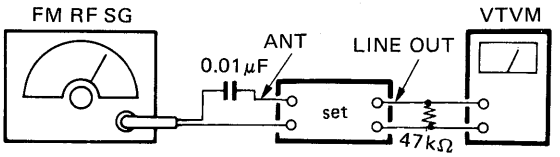
1. Rotate the gear near the motor and move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix lock gear C so that the spindle, the lock gear C fixing axis and the center of the lock gear C projection are roughly aligned.



SECTION 5
ELECTRICAL ADJUSTMENTS

Pilot cancel adjustment

Adjustment:

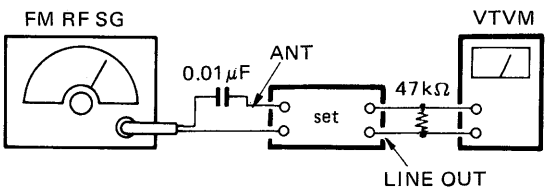


Carrier frequency:	98.1MHz
Output level:	1mv (60dB)
Mode:	Stereo
Modulation:	Pilot signal 19KHz, 7.5KHz deviation (10%)

Procedure:
1. Tune-up at 98.1MHz
2. Adjust RV602 so that the VTVM reading is minimum.

FM stereo separation adjustment
Conditions:
BAND SWITCH FM STEREO
FREQUENCY 98.1MHz

Adjustment:



Carrier frequency	98.1MHz
Mode	Stereo
Modulation	Main channel: 1KHz, 33.75KHz deviation (45%)
Pilot signal:	19KHz, 7.5KHz deviation (10%)
Subchannel:	1KHz, 33.75KHz deviation (45%)
Output lever	60 dB (1mV)

Procedure:

FM Stereo SSG Output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	Adjust RV601 so that the VTVM reading is minimum. (B)
R-CH	R-CH	(C)
L-CH	R-CH	Adjust RV601 so that the VTVM reading is minimum. (D)

Note: The separation values in the two channels should be identical.
(A) – (B) = (C) – (D)

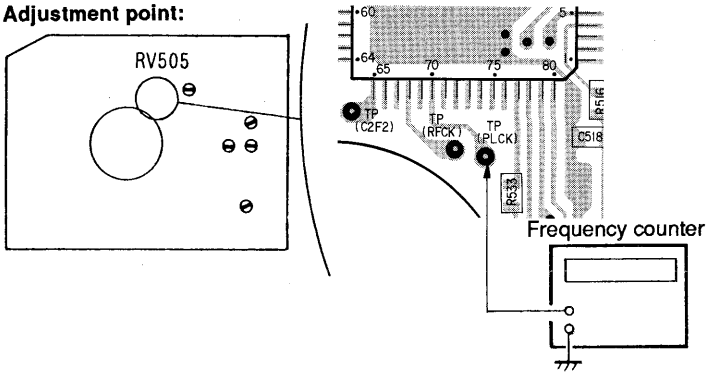
PLL free-run frequency adjustment

Adjustment:

1. Remove the soldering bridge (EFM) from the MD main board.
2. Connect the frequency counter to test point (PLCK).
3. Turn the power on and adjust RV505 so that frequency counter reading satisfies the specification.

Adjustable limits: 4.3118 to 4.3318MHz

Adjustment point:

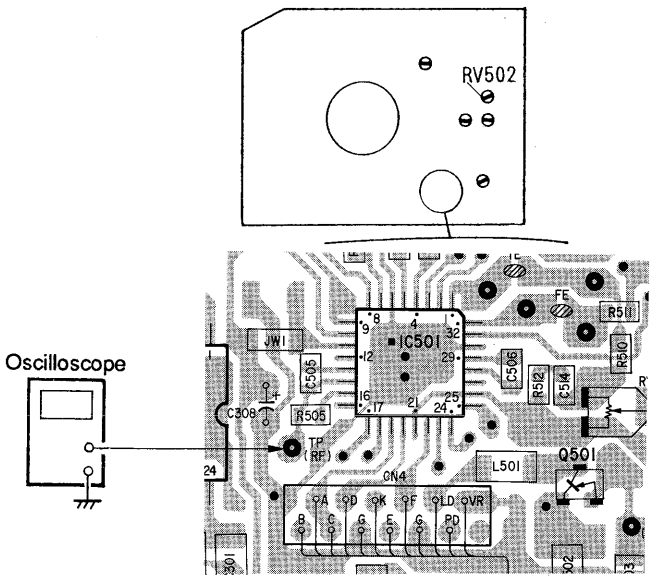


Focus offset adjustment

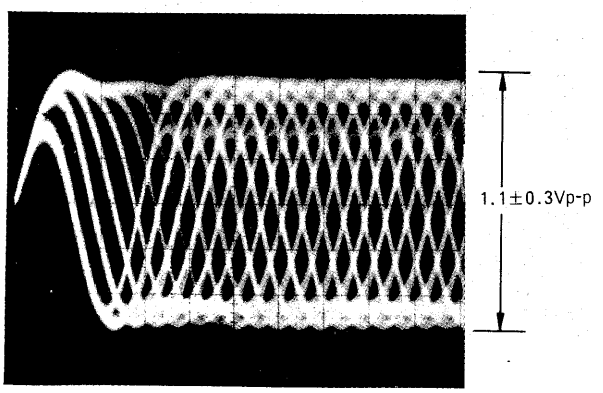
Adjustment:

1. Connect the oscilloscope to test point RF on the MD main board.
2. Load a disc and set mode to PLAY.
3. Adjust RV502 so that the waveform on the oscilloscope (eye pattern) is maximum with good shape. "Well-shaped eye pattern" means that the mark " ◇ " is clearly distinguished at the center of the waveform.

Adjustment point: MD main board



Volt/div: 200mV
Time/div: 0.5μsec

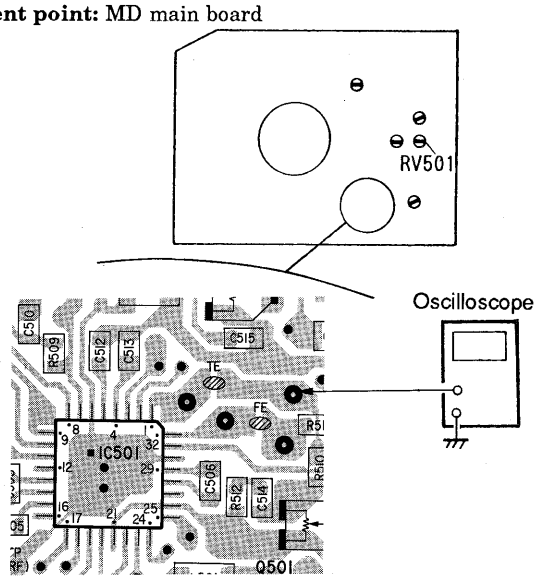


Tracking offset adjustment

Adjustment:

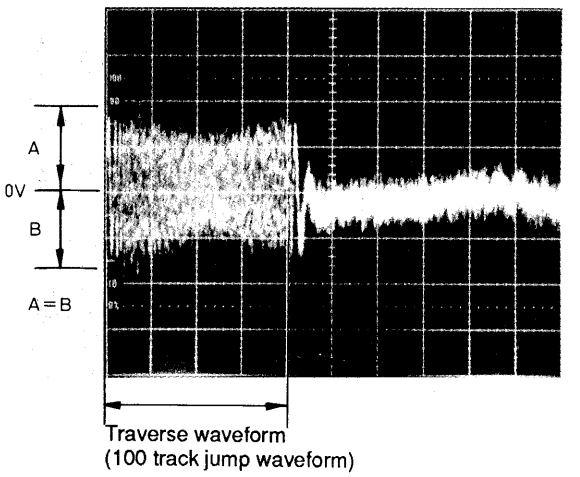
1. Connect the oscilloscope to test point TE on the MD main board.
2. Load a disc and set mode to PLAY.
3. Press button ⏮ or ⏭ (◀◀ or ▶▶) and observe the traverse waveform.
4. Adjust RV501 so that the waveform is symmetric when cenetered at the level to be accessed.

Adjustment point: MD main board



* Traverse waveform: Tracking error waveform which is observed when the track is traversed.

Volt/div: 0.5V
Time/div: 2msec
Center 0V



Tracking gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

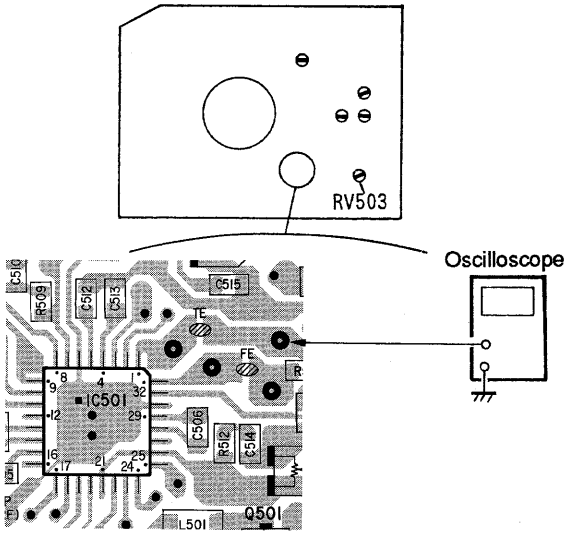
- Optical block
- BF503

Before starting this adjustment, complete the focus offset adjustment and the tracking off set adjustment.

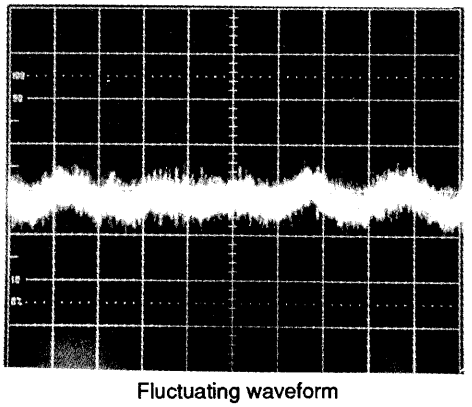
Adjustment:

1. Connect the oscilloscope to test point TE on the main board.
2. Load a disc and set mode to PLAY.
3. Turning RV503 clockwise, from the leftmost position, observe the waveform on the oscilloscope.
   Fix RV503 at the position where the waveform is become stable.

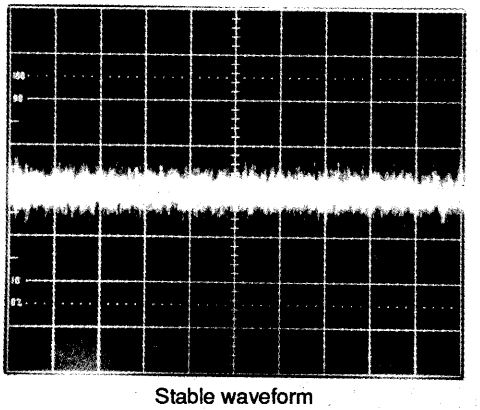
Adjustment point: MD main board



Volt/div: 0.5V
Tile/div: 2msec



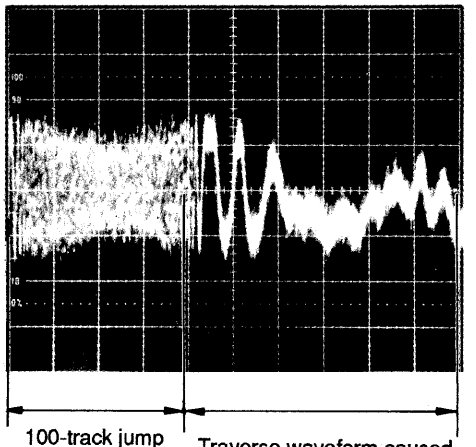
Fluctuating waveform



Stable waveform

- If the gain is too low

When music is selected by pressing button ⏮ or ⏭ , the tracking jump waveform is not focused completely and the music selection is delayed. (Break function does not work wall because its gain is too low.)

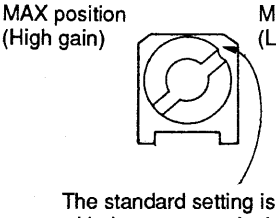


100-track jump waveform

Traverse waveform caused when break is not functioning well

- If the gain is too high

Noise due to scratches and dust is heard and the operation becomes unstable.



The standard setting is with the contact point located at this position.

—RV503 standard setting—

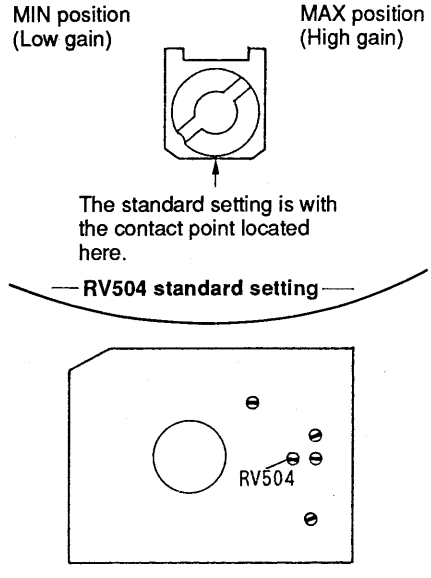
Focus gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

- Optical block
- RV404

Adjustment

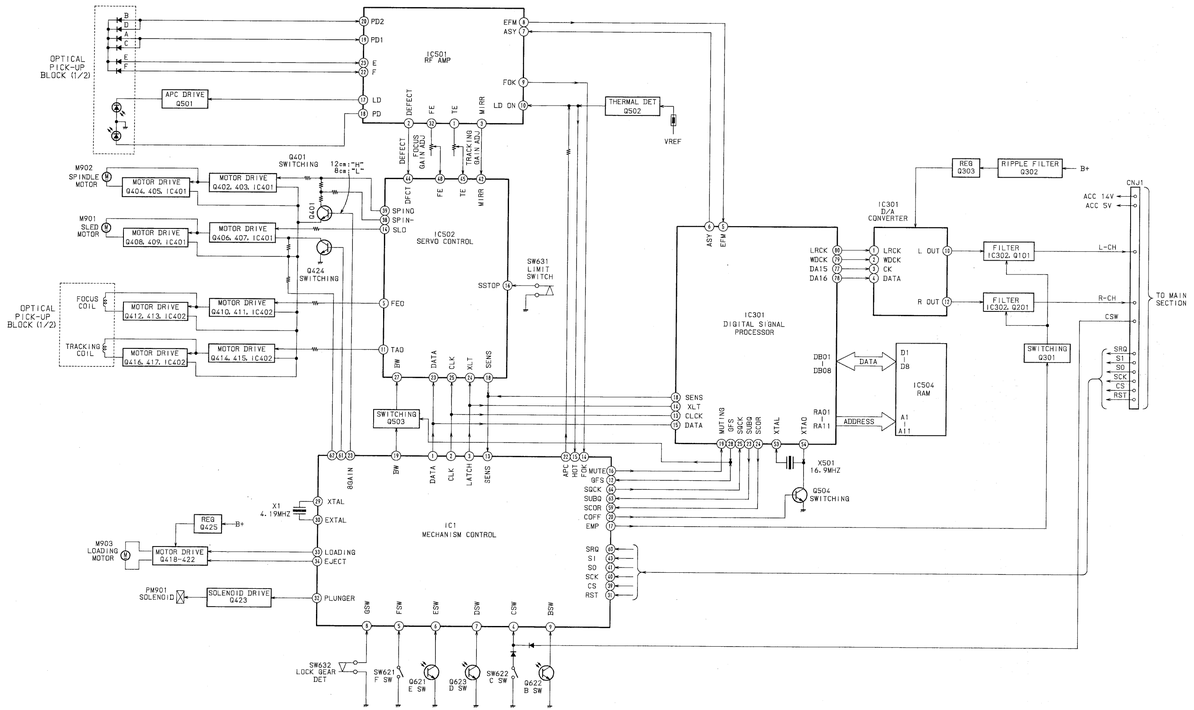
1. Set RV504 to the standard position.
2. Check whether operation noise (white noise type) caused by the double-axis device (lens section of the optical block) is abnormally loud.
   If the operation noise is too loud, turn RV504 slightly counterclockwise.



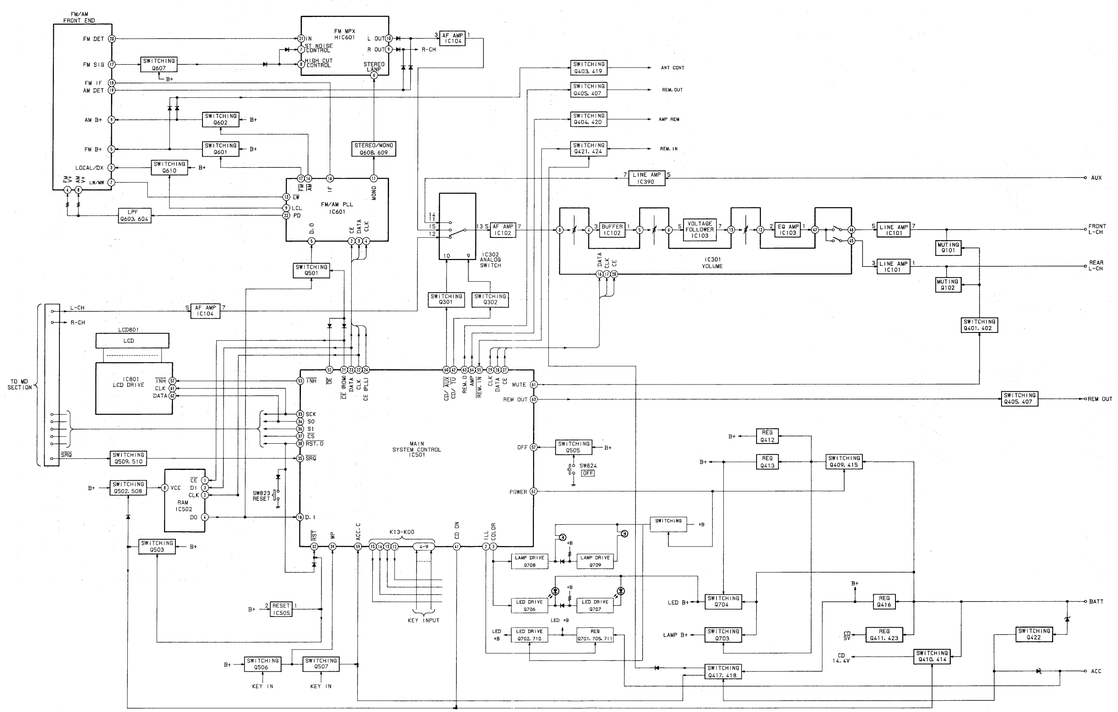
- If the gain is too low:
  Focus does not function and no music is selected.
- If the gain is too high:
  Noise caused by scratches and dust is heard and the operation becomes unstable.

SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM (MD Section)



6-2. BLOCK DIAGRAM (MAIN Section)



6-3. SEMICONDUCTOR LEAD LAYOUTS

(MD SECTION)

CXA1081Q

CXP5068H-008Q

IMX2

LN1261C

CXD1130Q

CXA1082BQ

IMB1

PN147-LF-R

(MAIN SECTION)

CXP5048H-188Q

CL-55Y/PG-D

DLS1585

10E2

LC7537AN

2SA1341
2SB1202FAS
2SD1802-S

RD3.9ES-B2
RD4.3ES-B2
RD5.6ES-BS
RD6.2ES-L1
RD6.2ES-L3
RD9.1ES-B2
RD9.1ES-B1
RD11ES-B1
RD16ES-B1
ISS119

LC-7582

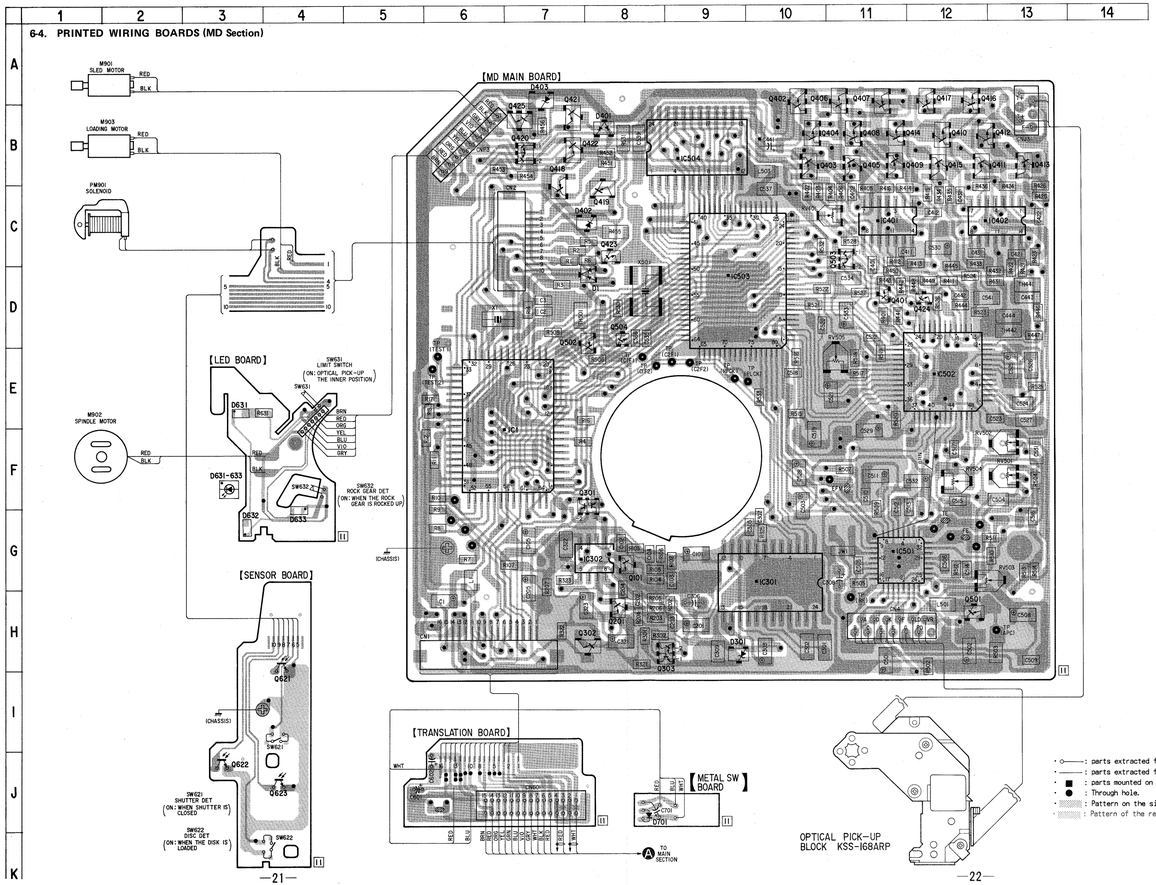
• SEMICONDUCTOR LOCATION (MD Section)

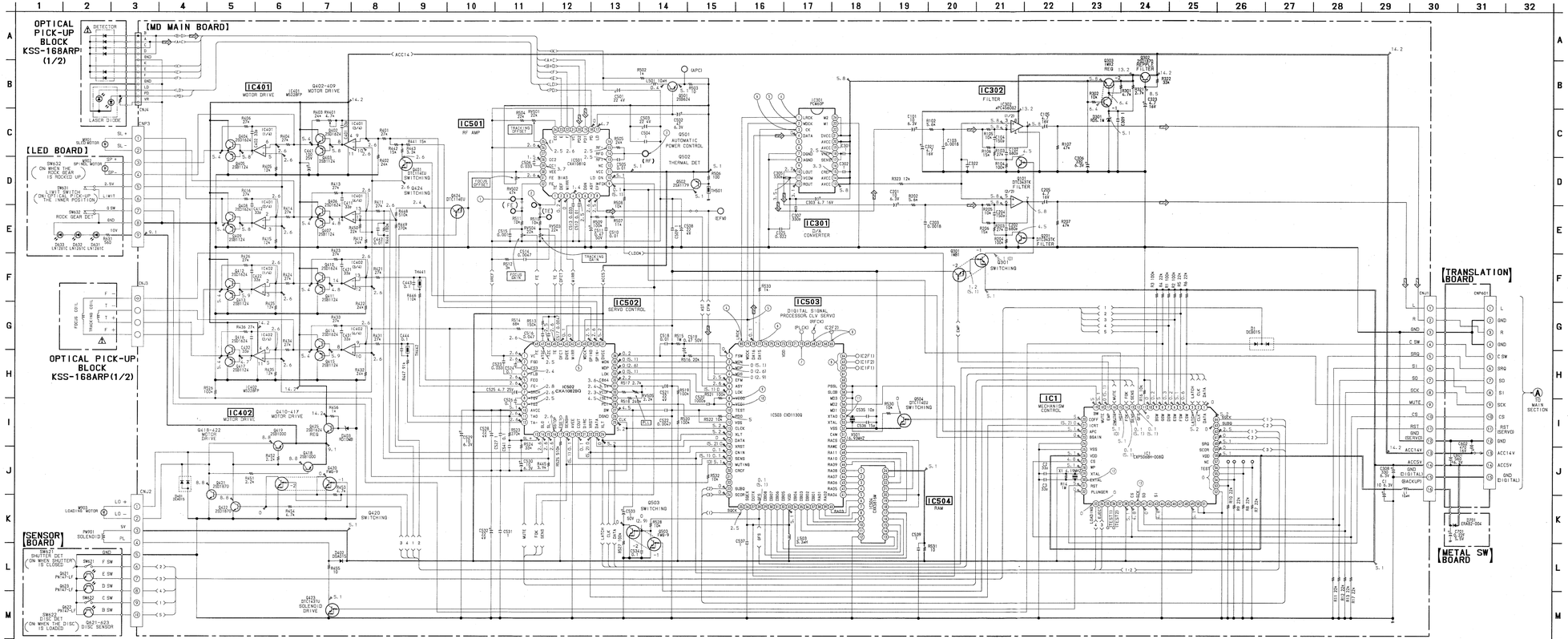
Ref. No.	Location No.	Ref. No.	Location No.
D1	D-7	Q405	B-11
D301	H-9	Q406	A-11
D401	B-8	Q407	A-11
D402	C-8	408	B-11
D403	A-7	409	B-12
D631	E-3	410	B-12
D632	G-3	411	B-13
D633	G-4	412	B-13
		413	B-13
IC1	F-7	414	B-12
IC301	G-10	415	B-12
IC302	G-8	416	A-13
IC401	C-11	417	A-12
IC402	C-13	418	B-7
IC501	G-11	419	C-8
IC502	E-12	420	B-7
IC503	D-9	421	A-7
IC504	B-9	422	B-8
		423	C-8
Q101	G-8	424	D-12
Q201	H-8	425	B-7
Q301	F-8	501	H-12
Q302	H-8	502	D-7
Q303	H-9	503	C-11
Q401	D-11	504	D-8
Q402	A-10	621	I-4
Q403	B-11	622	J-3
Q404	B-11	623	J-4

• SEMICONDUCTOR LOCATION (MAIN Section)

Ref. No.	Location No.	Ref. No.	Location No.	Ref. No.	Location No.
D101	E-19	D704	G-5	Q202	E-19
D102	B-17	D705	G-15	Q301	D-5
D201	F-19	D706	H-15	Q302	D-4
D202	F-17	D801	I-2	Q401	F-18
D390	F-18	D802	J-2	Q402	G-17
D402	G-18	D803	K-2	Q403	B-16
D403	B-19	D804	J-2	Q404	H-18
D405	B-19	D805	J-3	Q405	G-18
D406	A-16	D806	J-3	Q407	G-16
D407	G-18	D807	J-3	Q409	B-4
D408	G-19	D808	I-3	Q410	G-3
D409	G-16	D809	I-3	Q411	G-5
D410	C-16	D810	J-3	Q412	B-5
D413	G-20	D811	J-4	Q413	A-5
D414	H-19	D812	J-4	Q414	G-16
D415	F-5	D813	J-10	Q415	B-17
D416	H-19	D814	J-10	Q416	G-19
D417	B-16	D815	K-10	Q417	H-19
D418	F-19	D816	I-4	Q418	H-19
D419	G-18	D817	I-5	Q419	B-16
D420	G-19	D818	I-8	Q420	G-17
D441	C-16	D819	I-6	Q421	B-18
D501	H-12	D820	I-9	Q422	G-19
D502	H-12	D821	I-10	Q423	F-5
D503	H-12	D822	K-3	Q424	F-19
D504	H-12	D823	K-3	Q501	C-13
D505	G-13	D824	J-8	Q502	D-14
D506	G-13	D825	J-8	Q503	C-6
D508	G-13	D852	K-9	Q504	D-8
D509	G-13	D853	K-10	Q505	H-14
D508	G-13			Q506	H-12
D512	G-14	FE601	A-13	Q507	G-8
D513	H-12			Q508	D-14
D514	C-13	HIC601	B-12	Q509	D-6
D515	C-13			Q510	D-6
D517	C-7	IC101	C-18	Q601	C-14
D518	D-16	IC102	D-3	Q602	B-14
D519	G-8	IC103	C-17	Q603	B-14
D520	H-9	IC104	C-4	Q604	B-14
D521	H-11	IC201	E-18	Q607	B-12
D522	G-11	IC202	F-2	Q608	D-12
D523	E-8	IC203	F-4	Q609	D-12
D524	C-7	IC204	D-4	Q610	B-8
D525	C-15	IC301	D-17	Q701	H-4
D526	E-15	IC302	D-3	Q703	H-4
D527	E-9	IC390	F-17	Q704	H-18
D528	E-15	IC501	F-14	Q705	H-16
D601	B-15	IC502	C-14	Q706	H-5
D602	D-12	IC505	D-7	Q707	G-6
D603	D-12	IC601	B-13	Q708	G-15
D604	C-12	IC801	J-14	Q709	G-15
D605	C-12			Q710	H-6
D606	D-12	Q101	E-19	Q711	H-17
D701	H-17	Q102	D-19		
D702	H-17	Q201	E-19		

6-4. PRINTED WIRING BOARDS (MD Section)



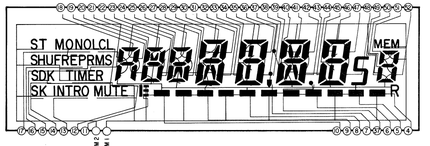


Note: (MD SECTION)

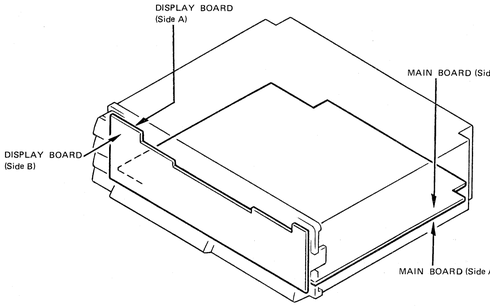
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : B +line
- : adjustment for repair.
- Power voltage is dc 14.4V and fed with regurated dc power. supply from battery, accesory terminals.
- Voltage and waveforms are dc with respect to ground under no signal conditions.
  no mark: STOP
  ( ) : PLAY
- Voltages are taken with a VOM. (Input impedance 10M Ω) Voltage variations may be noted due to normal production torerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇒ : CD
  ⇒ : Switch

Ref.No.	Switch	Position
SW921	SHUTTER DET	OFF
SW922	DISC DET	OFF
SW931	LIMIT	ON
SW932	LOCK GEAR DET	ON

● LCD801



6-6. CIRCUIT BOARDS LOCATION

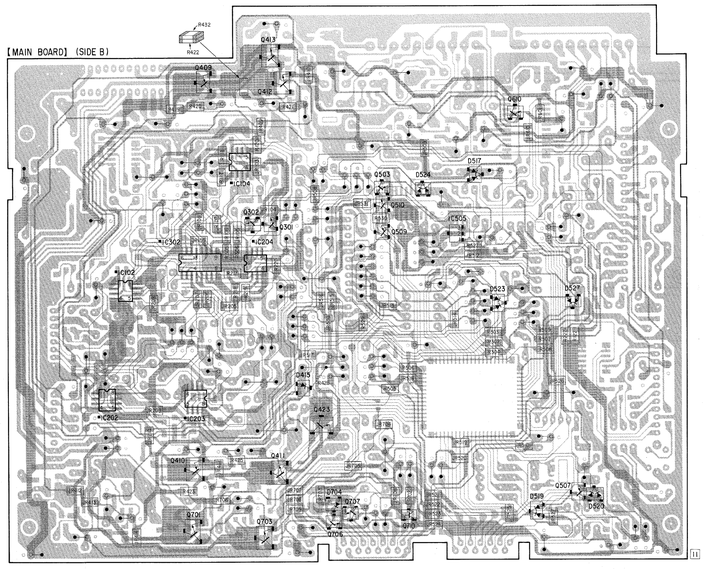


6-7. PRINTED WIRING BOARDS (MAIN Section)

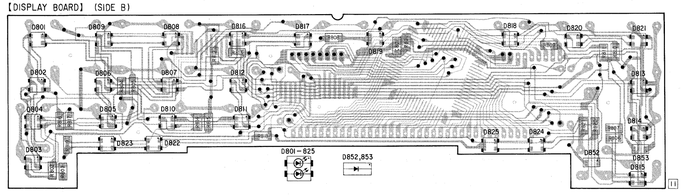
- Refer to page 19 on semiconductor lead layouts.
- Refer to page 20 on semiconductor location.

- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ●—○ : Jumper wire connected to the pattern on the component side.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

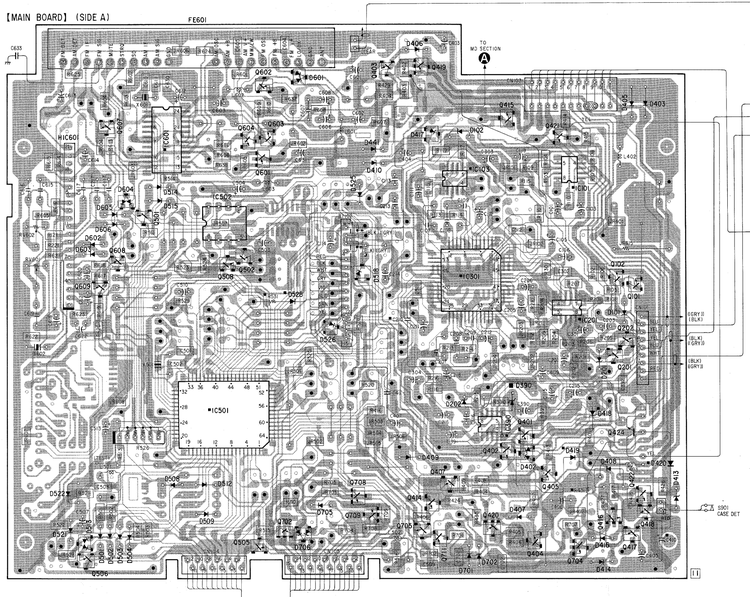
【MAIN BOARD】 (SIDE B)



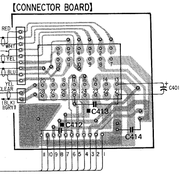
【DISPLAY BOARD】 (SIDE B)



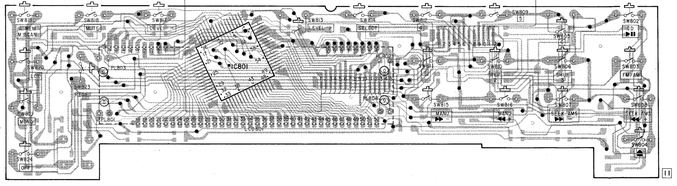
【MAIN BOARD】 (SIDE A)



【CONNECTOR BOARD】



【DISPLAY BOARD】 (SIDE A)

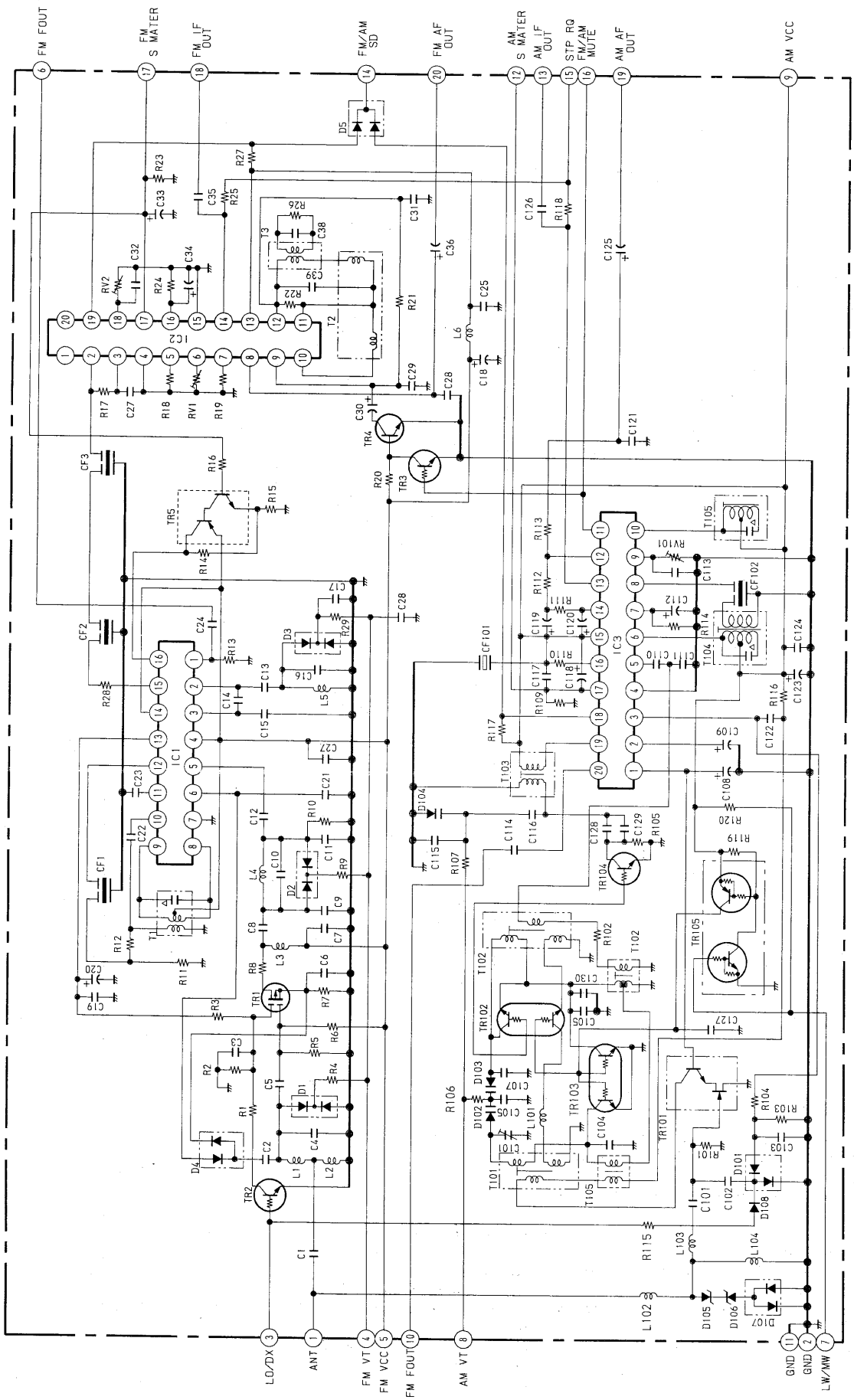


6-8. SCHEMATIC DIAGRAM (MAIN Section) • Refer to page 36 on IC block diagram. • Refer to page 38 on waveforms.

Note: (Main SECTION)

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ———: B +line
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with requrated dc power. supply from battery, accesory terminals.
- Voltage and waveforms are dc with respect to ground under no signal conditions.
  no mark: STOP MODE
  ( ) : PLAY MODE
  〈 〉 : FM
  《 》 : AM
- Voltages are taken with a VOM. (Input inpedance 10M Ω) Voltage variations may be noted due to normal production torerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ⇨ : AUX
  : CD

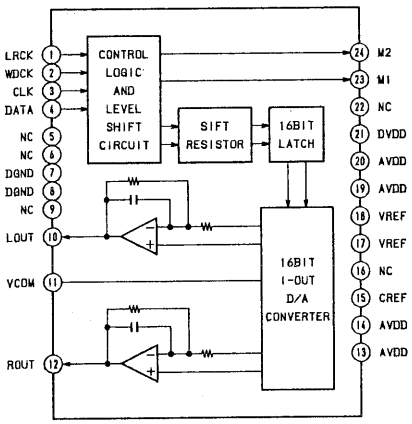
6-9. SCHEMATIC DIAGRAM (TUNER Unit)



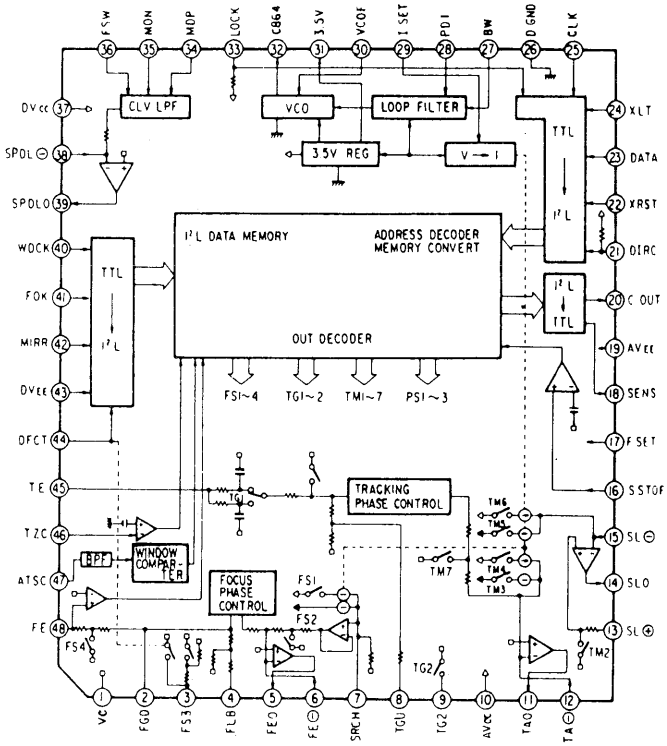
6-10. IC BLOCK DIAGRAMS

(MD SECTION)

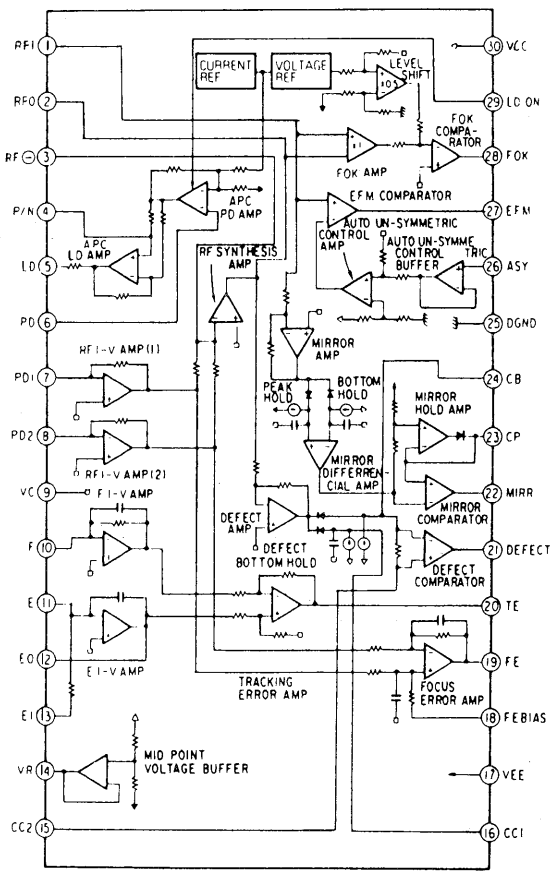
• IC301
PCM60P



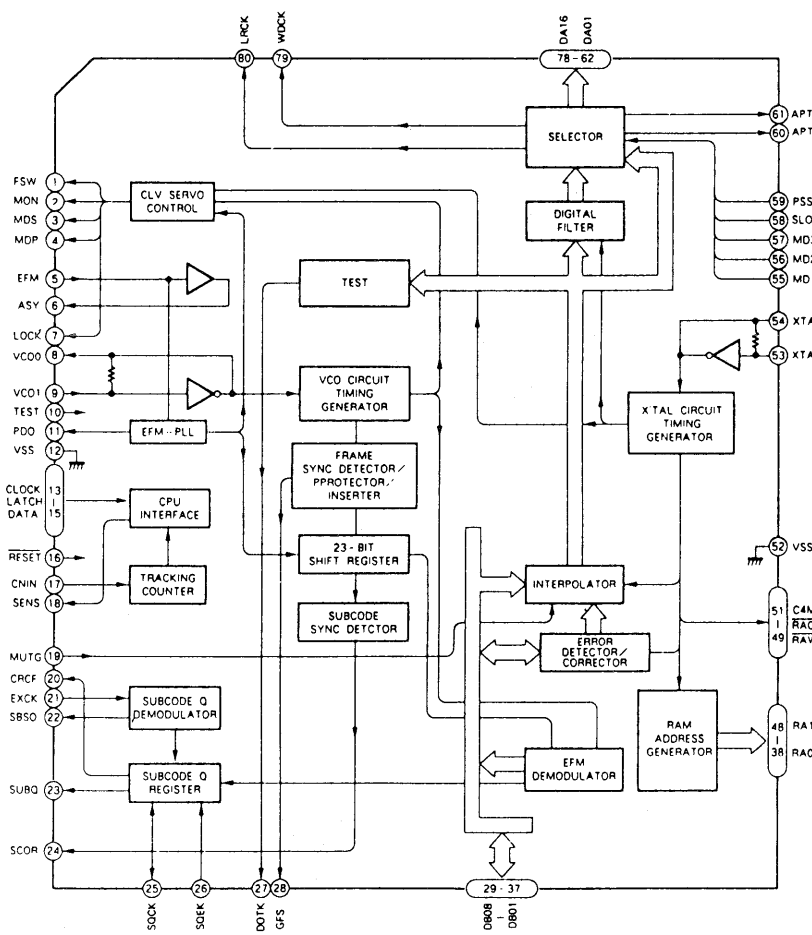
• IC502
CXA1082BQ



• IC501
CXA-1081Q

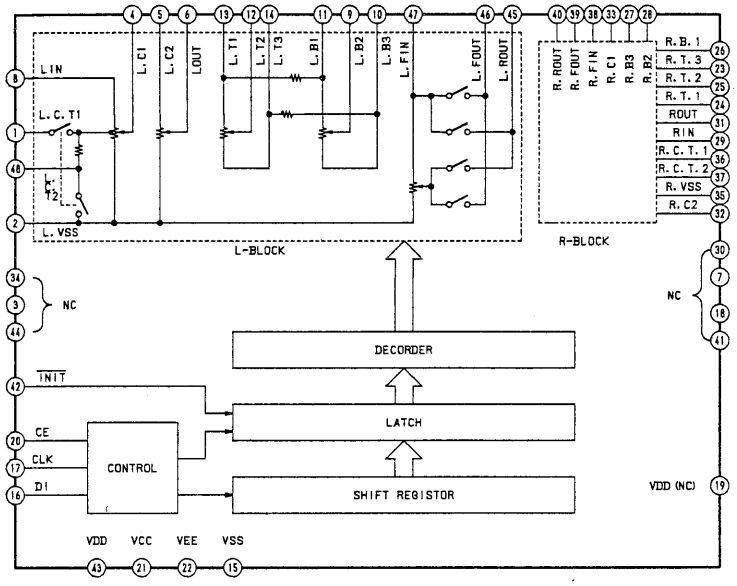


• IC503
CXD1130Q

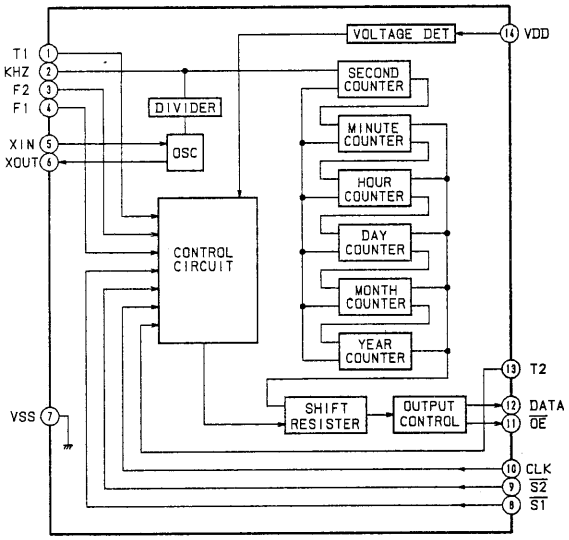


(MAIN SECTION)

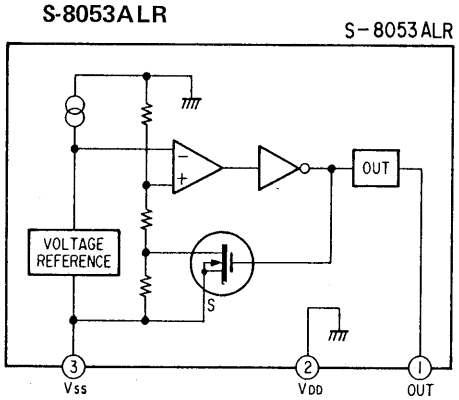
- **IC301**
  LC7537AN



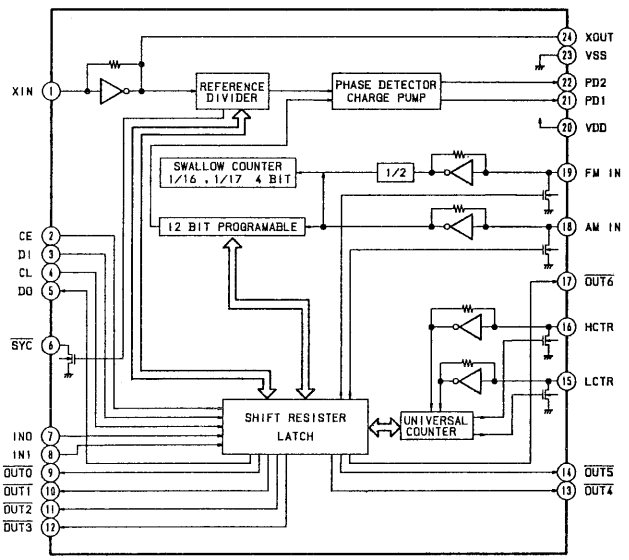
- **IC503**
  S-3500A



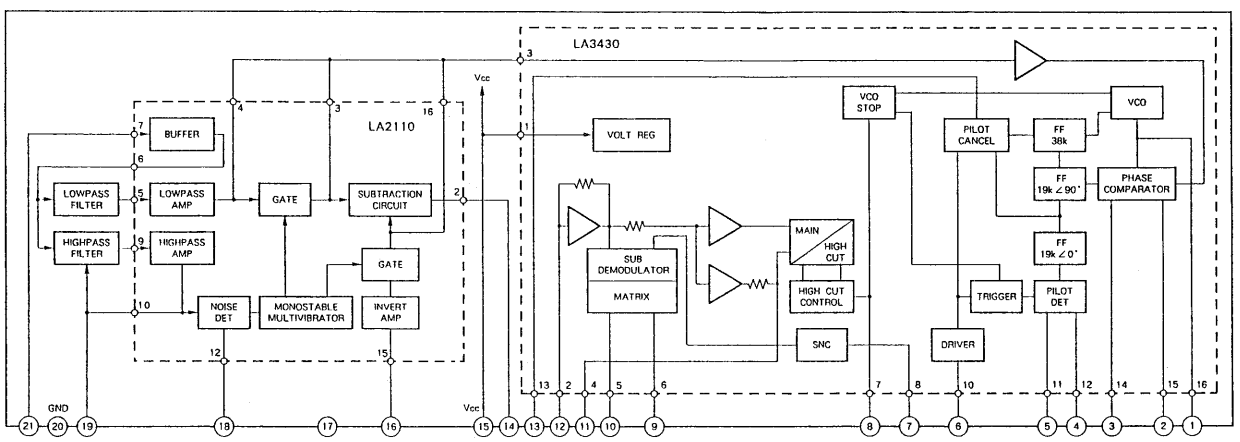
- **IC505**
  S-8053ALR



- **IC601**
  LC7218M

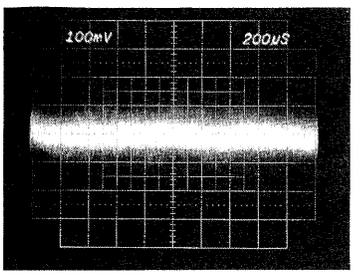


- **HIC601**

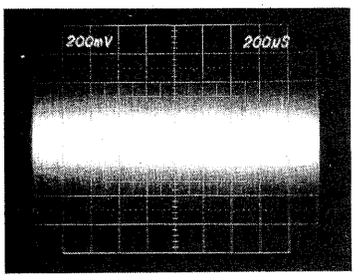


6-11. WAVEFORMS

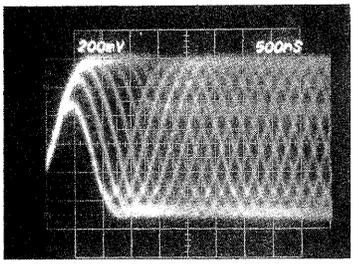
①



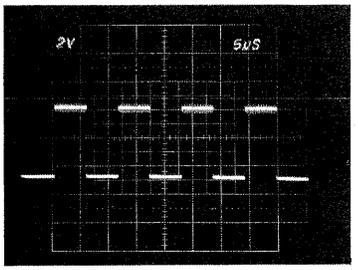
②



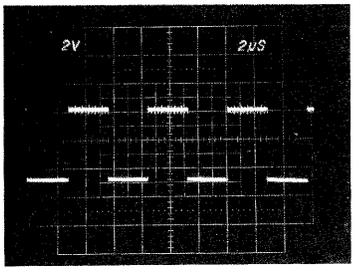
③



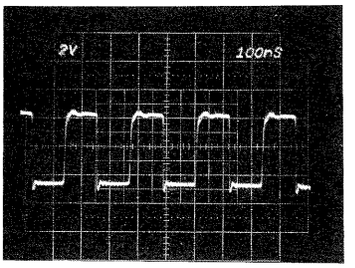
④



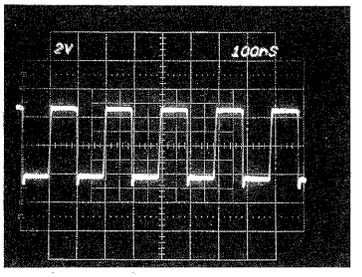
⑤



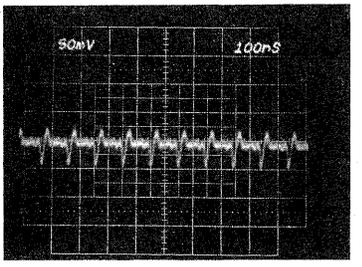
⑥



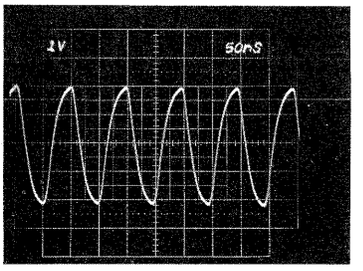
⑦



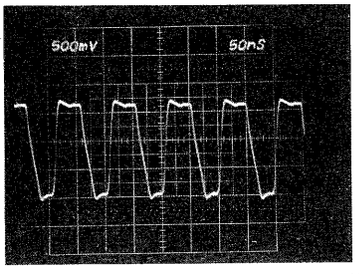
⑧



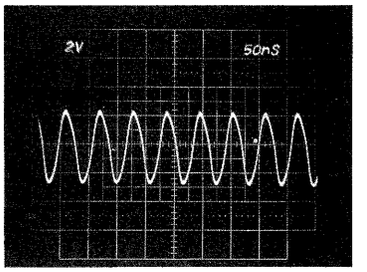
⑨



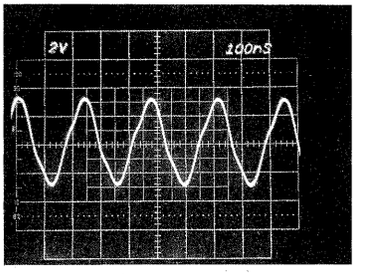
⑩



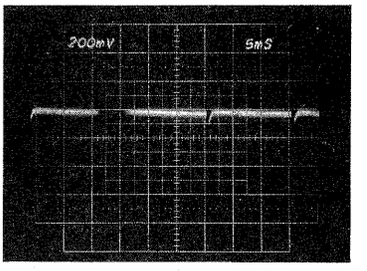
⑪



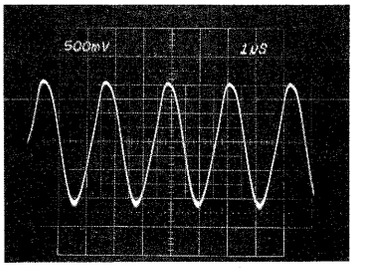
⑫



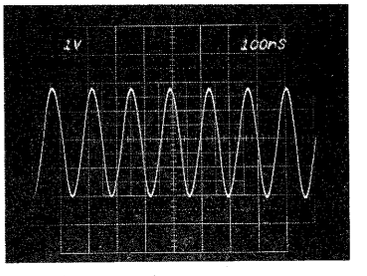
⑬



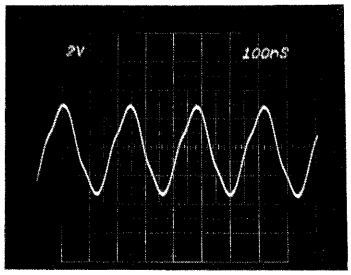
⑭



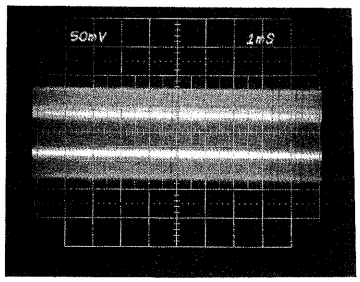
⑮



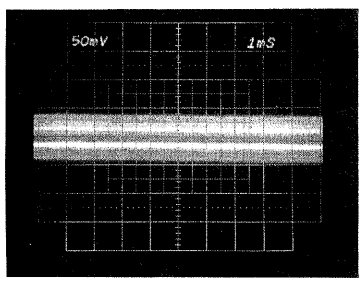
⑯


2V
100mS

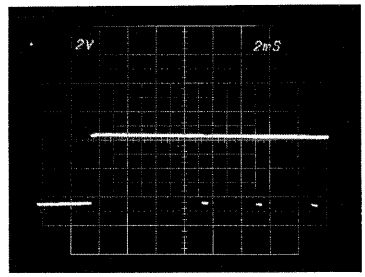
⑰


50mV
1mS

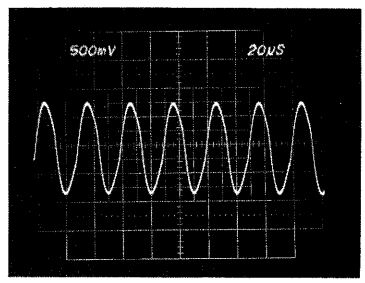
⑱


50mV
1mS

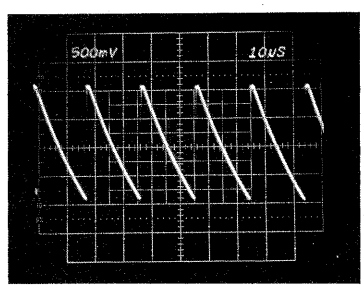
⑲


2V
2mS

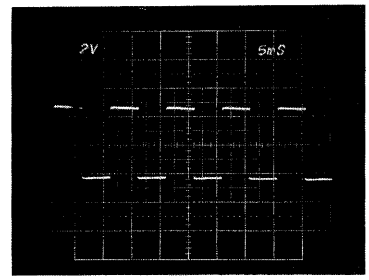
⑳


500mV
20uS

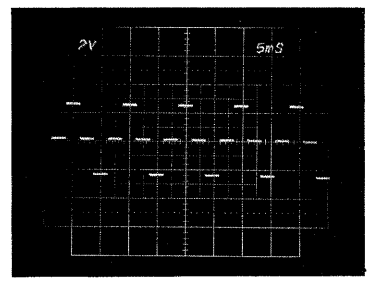
㉑


500mV
10uS

㉒


2V
5mS

㉓


2V
5mS

SECTION 7
EXPLODED VIEWS

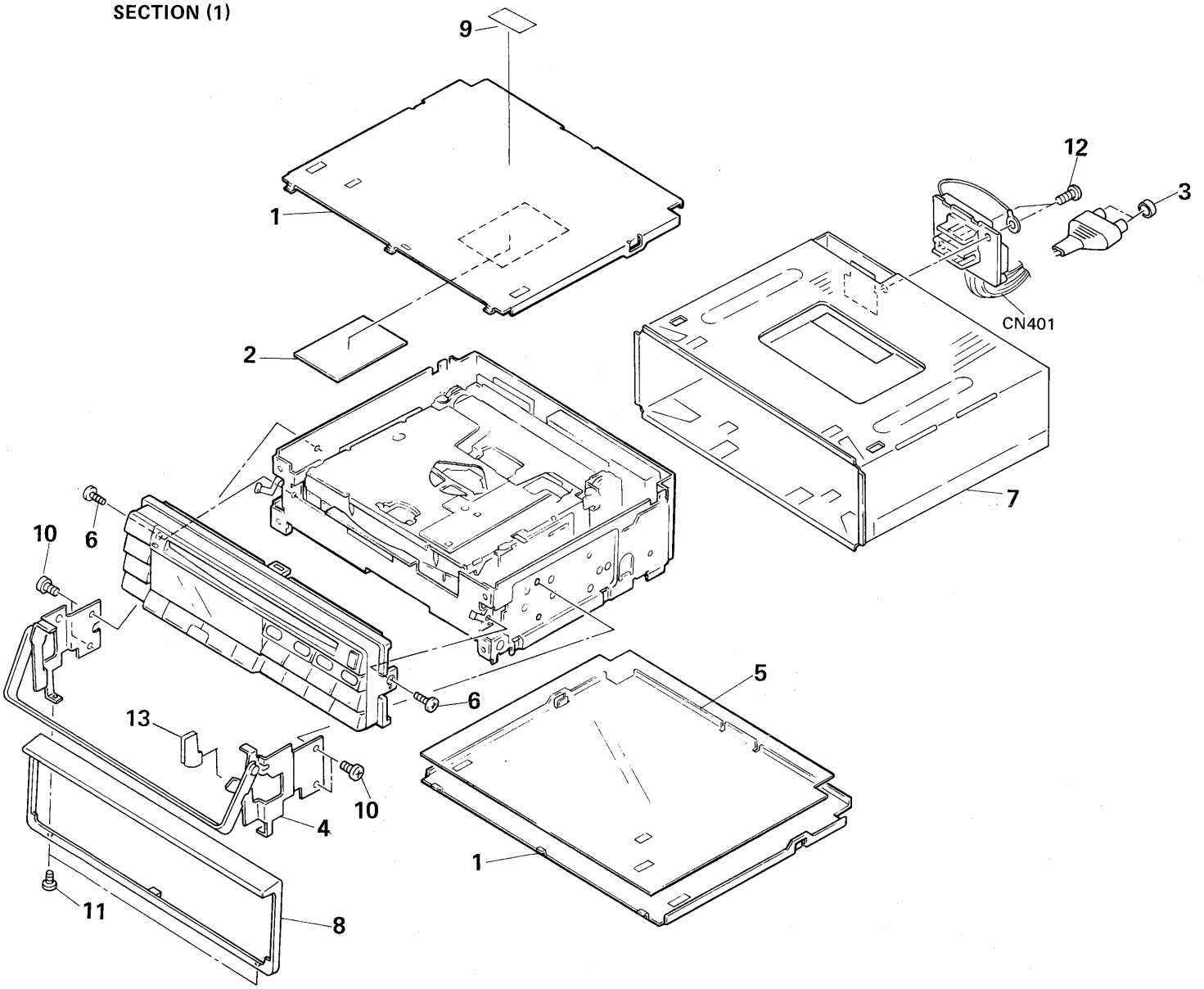
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

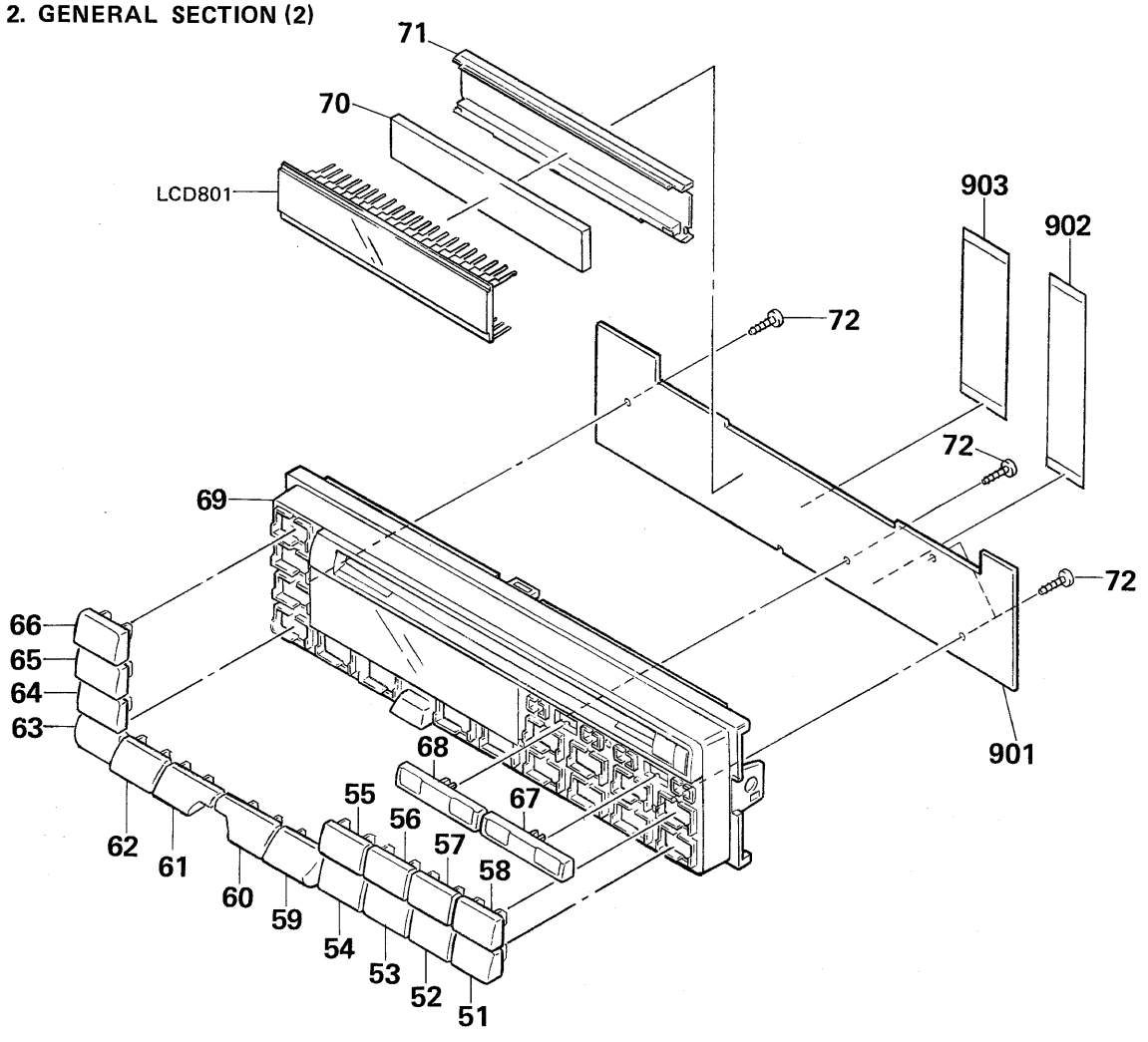
SECTION (1)



No.	Part No.	Description	Remarks
1	*3-345-342-01	COVER	
2	*3-345-318-01	SHEET (MD), INSULATING	
3	3-339-410-01	COVER, PIN JACK	
4	X-3344-508-1	HANDLE ASSY	
5	*3-345-317-01	SHEET, INSULATING	
6	7-685-792-09	SCREW +PTT 2.6X6 (S)	
7	X-3339-421-1	BRACKET ASSY	
8	3-344-564-01	FRAME, ORNAMENTAL	

No.	Part No.	Description	Remarks
9	*3-345-397-01	LABEL, MODEL NUMBER	
10	3-344-561-11	SCREW (M4X5)	
11	7-627-553-38	SCREW +P 2X3	
12	7-682-148-01	SCREW +P 3X8	
13	3-344-526-01	BUTTON, RELEASE	
CN401	1-574-488-11	CORD (WITH CONNECTOR)	

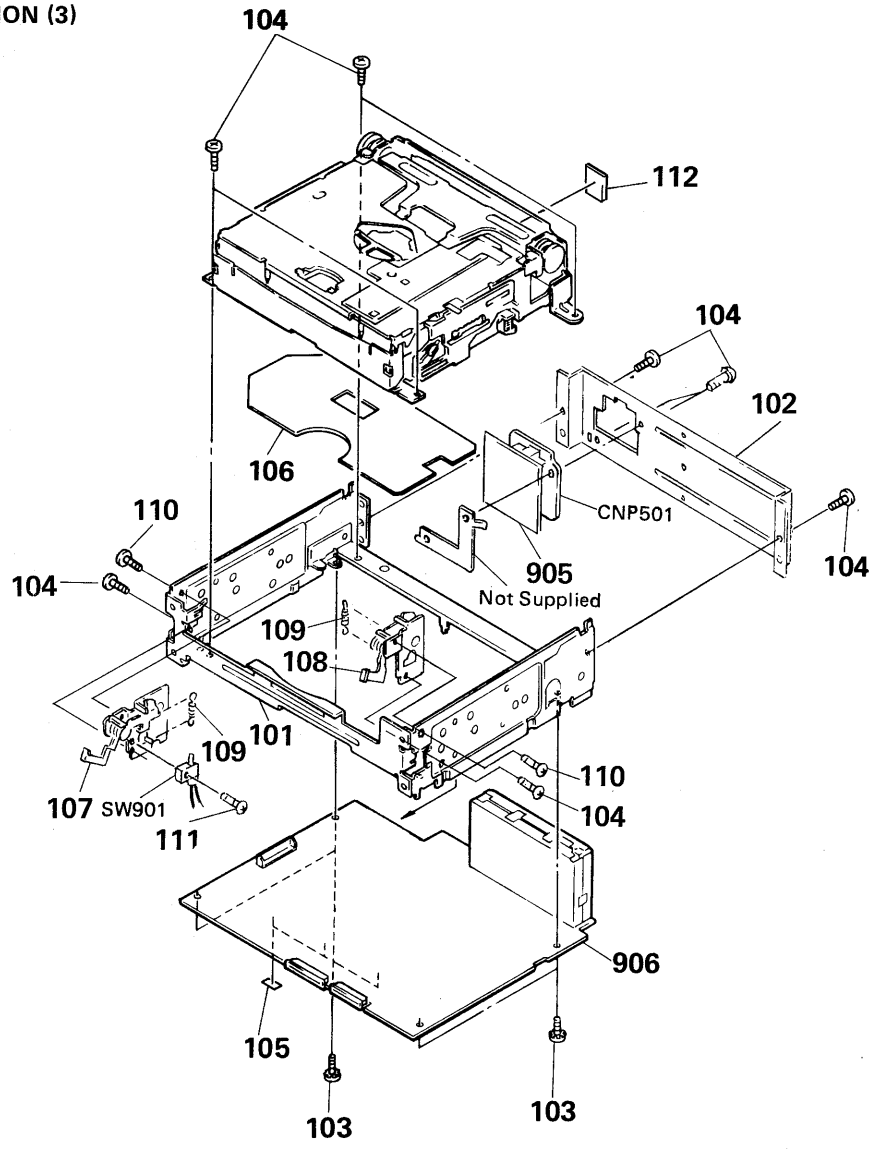
2. GENERAL SECTION (2)



No.	Part No.	Description	Remarks
51	3-345-326-01	BUTTON (PLAY)	
52	3-345-323-51	BUTTON (PRESET)	
53	3-345-323-41	BUTTON (PRESET)	
54	3-345-323-31	BUTTON (PRESET)	
55	3-345-323-01	BUTTON (PRESET)	
56	3-345-323-11	BUTTON (PRESET)	
57	3-345-323-21	BUTTON (PRESET)	
58	3-345-327-21	BUTTON (MN:N1W)	
59	3-345-331-01	BUTTON (SELECT)	
60	3-345-333-01	BUTTON (L-UP)	
61	3-345-334-01	BUTTON (L-DOWN)	
62	3-345-330-01	BUTTON (MUTE)	
63	3-345-325-01	BUTTON (M.SCAN)	
64	3-345-327-11	BUTTON (MN:N1W)	
65	3-345-327-01	BUTTON (MN:N1W)	

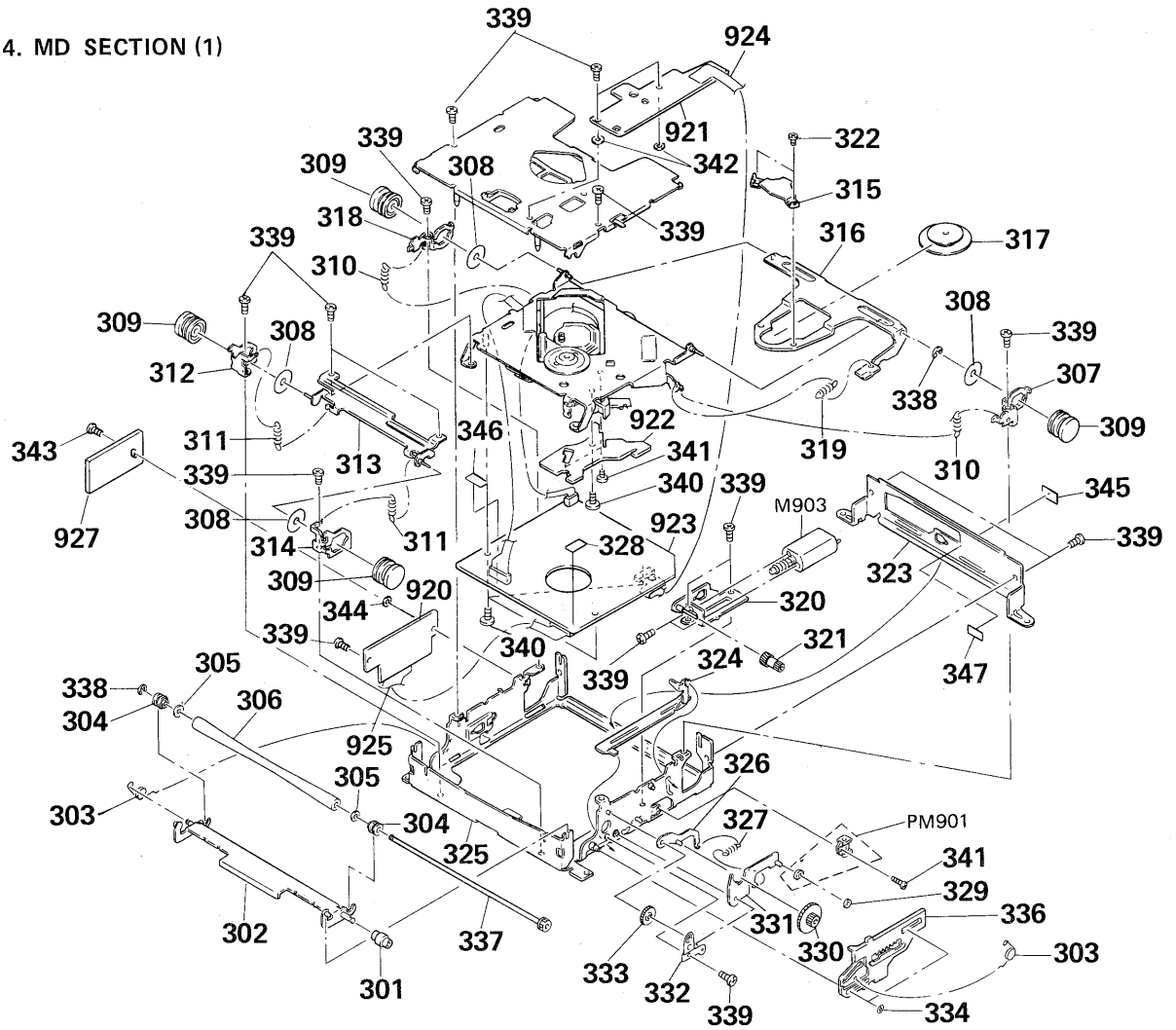
No.	Part No.	Description	Remarks
66	3-345-324-01	BUTTON (OFF)	
67	3-345-328-01	BUTTON (AMS)	
68	3-345-329-01	BUTTON (MANU)	
69	X-3339-423-1	PANEL ASSY, FRONT	
70	*3-345-319-01	PLATE, LIGHT GUIDE	
71	*3-345-335-01	HOLDER (LCD)	
72	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
901	*A-3219-191-A	PC BOARD ASSY, DISPLAY	
902	1-574-546-11	CABLE, FLAT FLEXIBLE (12 CORE)	
903	1-574-547-11	CABLE, FLAT FLEXIBLE (15 CORE)	
LCD801	1-808-662-11	DISPLAY PANEL, LIQUID CRYSTAL	

3. GENERAL SECTION (3)



No.	Part No.	Description	Remarks
101	*X-3339-416-1	CHASSIS ASSY	
102	*3-345-379-01	PANEL, BACK	
103	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
104	7-685-792-09	SCREW +PTT 2.6X6 (S)	
105	9-911-840-XX	CUSHION, CASSETTE LID	
106	*3-345-368-01	PLATE, SHIELD	
107	X-3344-502-1	LOCK ASSY (LEFT)	
108	X-3344-503-1	LOCK ASSY (RIGHT)	
109	3-645-189-01	SPRING TENSION	
110	7-627-553-38	SCREW +P 2X3	
111	7-621-283-00	SCREW +P 2X5	
112	9-911-844-XX	CUSHION	
905	*1-629-982-11	PC BOARD, CONNECTOR	
906	*A-3216-852-A	PC BOARD ASSY, MAIN	
CNP501	1-568-225-11	SOCKET, CONNECTOR 28P	
SW901	1-570-771-11	SWITCH (CASE DET)	

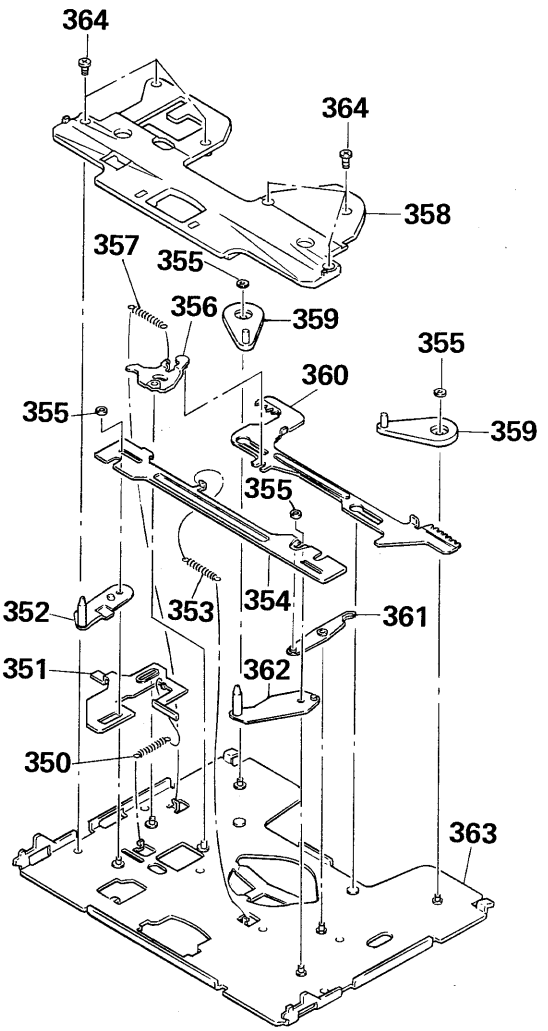
4. MD SECTION (1)



No.	Part No.	Description	Remarks
301	3-351-449-01	SLEEVE	
302	*X-3351-409-1	RACKET (ROLLER) ASSY	
303	3-351-437-01	SPRING (ROLLER)	
304	3-351-416-01	BEARING (ROLLER SHAFT)	
305	3-701-438-21	WASHER	
306	3-323-231-02	ROLLER (LOWER)	
307	*3-351-411-01	BRACKET (DAMPER D)	
308	3-323-263-01	WASHER, TEFLON	
309	3-330-929-01	DAMPER (S), HYPER	
310	3-351-444-01	SPRING (FLOATING A, B), TENSION	
311	3-351-445-01	SPRING (FLOATING C, D), TENSION	
312	*3-351-409-01	BRACKET (DAMPER B)	
313	*X-3351-410-1	BRACKET (F) ASSY	
314	*3-351-410-01	BRACKET (DAMPER C)	
315	3-342-625-01	RETAINER (S2), THRUST	
316	*3-351-453-01	ARM, CHUCKING	
317	3-348-558-01	PLATE (F), CHUCK	
318	*3-351-408-01	BRACKET (DAMPER A)	
319	3-351-443-01	SPRING (CHUCKING), TENSION	
320	*X-3351-401-1	BRACKET (M) ASSY	
321	3-351-413-01	GEAR (B)	
322	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
323	*3-351-457-01	BRACKET (REAR A)	
324	*X-3351-405-1	LEVER (CH RELEASE) ASSY	
325	*X-3351-412-1	CHASSIS (MAIN) ASSY	
326	*X-3351-406-1	LEVER (GEAR C) ASSY	
327	3-351-463-01	SPRING (SW LEVER 2), TENSION	
328	*3-351-466-01	SHEET (TH1)	

No.	Part No.	Description	Remarks
329	3-315-384-11	WASHER, STOPPER	
330	3-351-438-01	GEAR, CAM	
331	X-3351-402-1	LEVER (SW) ASSY	
332	3-351-441-01	RETAINER (SIDE GEAR)	
333	3-351-414-01	GEAR (C)	
334	3-578-224-00	WASHER	
336	3-351-456-01	LEVER (L, E)	
337	X-3351-413-1	SHAFT (ROLLER)	
338	7-624-104-04	STOP RING 2.0, TYPE -E	
339	7-627-553-27	SCREW, PRECISION +P 2X2.5	
340	7-621-772-08	SCREW +B 2X3	
341	7-627-850-57	SCREW, PRECISION +P 1.4X3.5	
342	3-892-464-01	SPACER, PC BOARD	
343	7-627-554-27	SCREW, PRECISION +P 2X6	
344	3-345-381-02	SPACER	
345	*3-351-470-01	SHEET	
346	*3-351-467-01	SHEET (TH2)	
347	*3-351-464-01	SHEET (SM)	
920	*1-628-911-11	PC BOARD, TRANSLATION	
921	*1-628-910-11	PC BOARD, SENSOR	
922	*1-628-912-11	PC BOARD, LED	
923	*A-3260-882-A	MOUNTED PCB, MD MAIN	
924	1-629-581-11	PC BOARD, SENSOR FILEXIBLE	
925	1-629-582-11	PC BOARD, TRANSLATION FLEXIBLE	
927	*1-628-450-11	METAL SW BOARD	
M903	A-3249-213-A	GEAR (A) ASSY (LOADING)	
PM901	1-454-461-11	SOLENOID, PLUNGER	

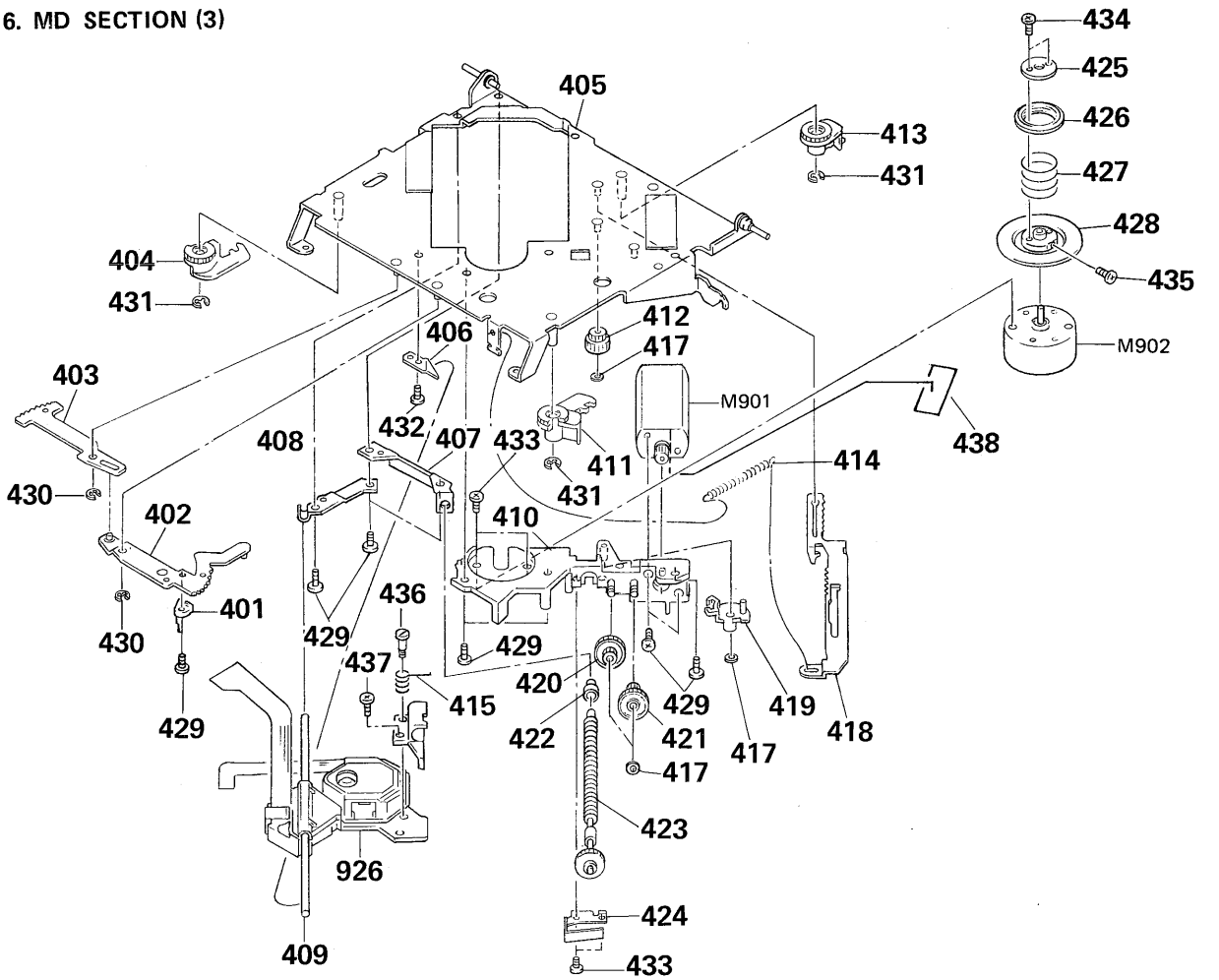
5. MD SECTION (2)



No.	Part No.	Description	Remarks
350	3-351-448-01	SPRING (LOCK LEVER), TENSION	
351	3-351-434-01	LEVER (LOCK)	
352	X-3351-404-1	LEVER (D DETECTION RIGHT) ASSY	
353	3-351-447-01	SPRING (JOINT F), TENSION	
354	3-351-402-01	JOINT (F)	
355	3-578-224-00	WASHER	
356	X-3351-407-1	JOINT (R) ASSY	
357	3-351-446-01	SPRING (JOINT R), TENSION	

No.	Part No.	Description	Remarks
358	3-351-460-01	GUIDE (DISK)	
359	3-351-432-01	GEAR (DS)	
360	3-351-433-01	LEVER (DS)	
361	X-3351-408-1	JOINT (M) ASSY	
362	X-3351-403-1	LEVER (D DETECTION LEFT) ASSY	
363	*X-3351-411-1	CHASSIS (T) ASSY	
364	7-627-553-27	SCREW, PRECISION +P 2X2.5	

6. MD SECTION (3)



No.	Part No.	Description	Remarks
401	*2-643-407-01	PLATE, SWITCH	
402	*X-2641-534-1	LEVER (A) ASSY, LOCK	
403	*2-641-582-01	LEVER (B), LOCK	
404	2-643-414-02	GEAR (B), LOCK	
405	*X-2641-536-2	CHASSIS ASSY, MAIN	
406	2-643-402-01	RETAINER (B), SHAFT	
407	2-643-403-01	RETAINER, FEED SCREW	
408	2-643-401-01	RETAINER (A), SHAFT	
409	2-640-632-01	SHAFT, GUIDE	
410	*X-2641-535-2	CHASSIS ASSY, SUB	
411	2-643-413-02	GEAR (A), LOCK	
412	2-643-405-01	WHEEL, WORM	
413	2-641-599-02	GEAR (C), GEAR	
414	2-641-595-02	SPRING, TENSION	
415	2-643-420-01	SPRING	
416	2-643-412-02	NUT, FEED	
417	3-321-813-01	WASHER, COTTER POLYETHYLENE	
418	*2-641-583-02	LEVER (C), LOCK	
419	2-643-406-02	LEVER, SELECTION	
420	2-643-410-01	GEAR (E)	

No.	Part No.	Description	Remarks
421	2-643-409-01	GEAR (D)	
422	2-643-408-02	RETAINER, THRUST	
423	A-4910-184-B	SCREW ASSY, FEED	
424	2-643-404-01	SPRING	
425	2-640-650-01	STOPPER, RING	
426	2-643-418-01	RING, CENTER	
427	2-640-617-02	SPRING, COMPRESSION	
428	X-2641-541-1	TURNTABLE ASSY	
429	7-627-554-18	SCREW, PRECISION +P 2X3.5 TYPE1	
430	7-624-104-04	STOP RING 2.0, TYPE -E	
431	7-624-106-04	STOP RING 3.0, TYPE -E	
432	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
433	7-627-552-08	SCREW, PRECISION +P 1.7X2.5	
434	7-627-451-17	SCREW, PRECISION +K 1.4X2.5	
435	7-627-451-57	SCREW, PRECISION +K 1.4X4	
436	2-643-423-01	SCREW, SP	
437	7-627-852-17	+P 1.7X4	
438	3-351-469-01	SHEET, MOTOR	
M901	A-4910-183-A	MOTOR ASSY, SL (SLED)	
M902	1-541-448-41	MOTOR (SPINDLE)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(MAIN SECTION)

Ref.No.	Part No.	Description			
901	*A-3219-191-A	PC BOARD ASSY, DISPLAY			
902	1-574-546-11	CABLE, FLAT FLEXIBLE (12 CORE)			
903	1-574-547-11	CABLE, FLAT FLEXIBLE (15 CORE)			
905	*1-629-982-11	PC BOARD, CONNECTOR			
906	*A-3216-852-A	PC BOARD ASSY, MAIN			
C101	1-126-157-11	ELECT	10MF	20%	16V
C103	1-126-157-11	ELECT	10MF	20%	16V
C105	1-124-438-00	ELECT	1MF	20%	50V
C106	1-124-438-00	ELECT	1MF	20%	50V
C107	1-130-476-00	MYLAR	0.0027MF	5%	50V
C108	1-136-162-00	FILM	0.056MF	5%	50V
C109	1-136-162-00	FILM	0.056MF	5%	50V
C110	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C111	1-124-242-00	ELECT	33MF	20%	16V
C112	1-124-242-00	ELECT	33MF	20%	16V
C113	1-124-499-11	ELECT	1MF	20%	50V
C114	1-126-157-11	ELECT	10MF	20%	16V
C115	1-126-583-61	ELECT	2.2MF	20%	50V
C116	1-126-157-11	ELECT	10MF	20%	16V
C117	1-136-155-00	FILM	0.015MF	5%	50V
C118	1-124-584-00	ELECT	100MF	20%	10V
C201	1-126-157-11	ELECT	10MF	20%	16V
C203	1-126-157-11	ELECT	10MF	20%	16V
C205	1-124-438-00	ELECT	1MF	20%	50V
C206	1-124-438-00	ELECT	1MF	20%	50V
C207	1-130-476-00	MYLAR	0.0027MF	5%	50V
C208	1-136-162-00	FILM	0.056MF	5%	50V
C209	1-136-162-00	FILM	0.056MF	5%	50V
C210	1-162-282-31	CERAMIC	100PF	10%	50V
C211	1-124-242-00	ELECT	33MF	20%	16V
C212	1-124-242-00	ELECT	33MF	20%	16V
C213	1-124-499-11	ELECT	1MF	20%	50V
C214	1-126-157-11	ELECT	10MF	20%	16V
C215	1-126-583-61	ELECT	2.2MF	20%	50V
C216	1-126-157-11	ELECT	10MF	20%	16V
C217	1-136-155-00	FILM	0.015MF	5%	50V
C218	1-124-584-00	ELECT	100MF	20%	10V
C301	1-124-589-11	ELECT	47MF	20%	16V
C302	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C303	1-124-589-11	ELECT	47MF	20%	16V
C304	1-124-589-11	ELECT	47MF	20%	16V
C390	1-124-584-00	ELECT	100MF	20%	10V
C391	1-124-584-00	ELECT	100MF	20%	10V
C392	1-163-183-00	CERAMIC CHIP	120PF	5%	50V
C403	1-124-584-00	ELECT	100MF	20%	10V
C404	1-126-157-11	ELECT	10MF	20%	16V
C405	1-126-157-11	ELECT	10MF	20%	16V
C406	1-125-559-11	CAP,DUBLE LAYERS	0.047F		5.5V
C407	1-126-157-11	ELECT	10MF	20%	16V
C409	1-124-438-00	ELECT	1MF	20%	50V
C410	1-131-377-00	TANTAL	10MF		10V
C411	1-161-494-00	CERAMIC	0.022MF		25V
C412	1-161-494-00	CERAMIC	0.022MF		25V
C413	1-161-494-00	CERAMIC	0.022MF		25V
C414	1-161-494-00	CERAMIC	0.022MF		25V
C501	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C502	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C503	1-124-584-00	ELECT	100MF	20%	10V
C504	1-126-157-11	ELECT	10MF	20%	16V
C507	1-126-157-11	ELECT	10MF	20%	16V
C508	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C509	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C510	1-126-157-11	ELECT	10MF	20%	16V
C511	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C512	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C513	1-126-565-61	ELECT	22MF	20%	16V
C601	1-126-561-61	ELECT	33MF	20%	10V
C602	1-126-561-61	ELECT	33MF	20%	10V
C603	1-126-561-61	ELECT	33MF	20%	10V
C604	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C605	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C606	1-126-584-61	ELECT	3.3MF	20%	50V
C607	1-136-153-00	FILM	0.01MF	5%	50V
C608	1-126-584-61	ELECT	3.3MF	20%	50V
C610	1-163-161-00	CERAMIC CHIP	15PF	5%	50V
C611	1-163-161-00	CERAMIC CHIP	15PF	5%	50V
C612	1-124-242-00	ELECT	33MF	20%	16V
C613	1-126-567-61	ELECT	4.7MF	20%	25V
C614	1-126-565-61	ELECT	22MF	20%	16V
C615	1-130-477-00	MYLAR	0.0033MF	5%	50V
C616	1-163-157-00	FILM	0.022MF	5%	50V
C617	1-136-153-00	FILM	0.01MF	5%	50V
C618	1-126-567-61	ELECT	4.7MF	20%	25V
C619	1-110-354-91	MYLAR	0.0018MF	5%	50V
C620	1-124-438-00	ELECT	1MF	20%	50V
C621	1-126-577-61	ELECT	0.22MF	20%	50V
C622	1-124-438-00	ELECT	1MF	20%	50V
C630	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C631	1-124-242-00	ELECT	33MF	20%	16V

Ref.No.	Part No.	Description		
C633	1-161-494-00	CERAMIC 0.022MF		25V
C701	1-163-059-00	CERAMIC CHIP 0.01MF	10%	50V
C702	1-163-063-00	CERAMIC CHIP 0.022MF	10%	50V
C801	1-163-201-00	CERAMIC CHIP 680PF	5%	50V
CN401	1-574-488-11	CORD (WITH CONNECTOR)		
CNJ103*	1-568-189-11	SOCKET, CONNECTOR 11P		
CNJ104	1-565-954-11	SOCKET, CONNECTOR 12P		
CNJ105*	1-568-296-11	SOCKET, CONNECTOR 15P		
CNP101*	1-506-991-11	PIN, CONNECTOR (PC BOARD) 9P		
CNP103*	1-568-190-11	PIN, CONNECTOR 11P		
CNP501	1-568-225-11	SOCKET, CONNECTOR 28P		
D101	8-719-109-72	DIODE RD3.9ES-B2		
D102	8-719-109-75	DIODE RD4.3ES-B2		
D201	8-719-109-72	DIODE RD3.9ES-B2		
D202	8-719-109-75	DIODE RD4.3ES-B2		
D390	8-719-109-75	DIODE RD4.3ES-B2		
D402	8-719-100-05	DIODE 1S2837		
D403	8-719-200-02	DIODE 10E2		
D405	8-719-200-02	DIODE 10E2		
D406	8-719-911-19	DIODE 1SS119		
D407	8-719-911-19	DIODE 1SS119		
D408	8-719-110-44	DIODE RD16ES-B1		
D409	8-719-110-21	DIODE RD11ES-B1		
D410	8-719-109-89	DIODE RD5.6ES-B2		
D413	8-719-120-78	DIODE RD6.2ES-L3		
D414	8-719-120-78	DIODE RD6.2ES-L3		
D415	8-719-105-91	DIODE RD5.6M-B2		
D416	8-719-911-19	DIODE 1SS119		
D417	8-719-100-05	DIODE 1S2837		
D418	8-719-110-12	DIODE RD9.1ES-B1		
D419	8-719-911-19	DIODE 1SS119		
D420	8-719-911-19	DIODE 1SS119		
D441	8-719-110-13	DIODE RD9.1ES-B2		
D501	8-719-911-19	DIODE 1SS119		
D502	8-719-911-19	DIODE 1SS119		
D503	8-719-911-19	DIODE 1SS119		
D504	8-719-911-19	DIODE 1SS119		
D508	8-719-911-19	DIODE 1SS119		
D509	8-719-911-19	DIODE 1SS119		
D512	8-719-911-19	DIODE 1SS119		
D513	8-719-100-03	DIODE 1S2835		
D514	8-719-911-19	DIODE 1SS119		
D515	8-719-911-19	DIODE 1SS119		
D517	8-719-100-05	DIODE 1S2837		
D518	8-719-100-05	DIODE 1S2837		
D519	8-719-100-05	DIODE 1S2837		
D520	8-719-100-05	DIODE 1S2837		
D521	8-719-911-19	DIODE 1SS119		
D522	8-719-911-19	DIODE 1SS119		
D523	8-719-100-05	DIODE 1S2837		
D524	8-719-100-05	DIODE 1S2837		
D525	8-719-911-19	DIODE 1SS119		
D526	8-719-105-91	DIODE RD5.6M-B2		
D527	8-719-100-05	DIODE 1S2837		

Ref.No.	Part No.	Description
D528	8-719-911-19	DIODE 1SS119
D601	8-719-100-05	DIODE 1S2837
D602	8-719-911-19	DIODE 1SS119
D603	8-719-911-19	DIODE 1SS119
D604	8-719-100-03	DIODE 1S2835
D605	8-719-911-19	DIODE 1SS119
D606	8-719-911-19	DIODE 1SS119
D701	8-719-110-13	DIODE RD9.1ES-B2
D702	8-719-110-21	DIODE RD11ES-B1
D704	8-719-100-05	DIODE 1S2837
D705	8-719-911-19	DIODE 1SS119
D706	8-719-100-05	DIODE 1S2837
D801	8-719-975-27	DIODE CL-55Y/PG-D
D802	8-719-975-27	DIODE CL-55Y/PG-D
D803	8-719-975-27	DIODE CL-55Y/PG-D
D804	8-719-975-27	DIODE CL-55Y/PG-D
D805	8-719-975-27	DIODE CL-55Y/PG-D
D806	8-719-975-27	DIODE CL-55Y/PG-D
D807	8-719-975-27	DIODE CL-55Y/PG-D
D808	8-719-975-27	DIODE CL-55Y/PG-D
D809	8-719-975-27	DIODE CL-55Y/PG-D
D810	8-719-975-27	DIODE CL-55Y/PG-D
D811	8-719-975-27	DIODE CL-55Y/PG-D
D812	8-719-975-27	DIODE CL-55Y/PG-D
D813	8-719-975-27	DIODE CL-55Y/PG-D
D814	8-719-975-27	DIODE CL-55Y/PG-D
D815	8-719-975-27	DIODE CL-55Y/PG-D
D816	8-719-975-27	DIODE CL-55Y/PG-D
D817	8-719-975-27	DIODE CL-55Y/PG-D
D818	8-719-975-27	DIODE CL-55Y/PG-D
D819	8-719-975-27	DIODE CL-55Y/PG-D
D820	8-719-975-27	DIODE CL-55Y/PG-D
D821	8-719-975-27	DIODE CL-55Y/PG-D
D822	8-719-975-27	DIODE CL-55Y/PG-D
D823	8-719-975-27	DIODE CL-55Y/PG-D
D824	8-719-975-27	DIODE CL-55Y/PG-D
D825	8-719-975-27	DIODE CL-55Y/PG-D
D852	8-719-801-67	DIODE DLS1585
D853	8-719-801-67	DIODE DLS1585
FE601	1-465-141-11	TUNER UNIT (FM/MW/LW)
HIC601	1-808-515-11	IC NMX3S900 (50US)
IC101	8-759-109-70	IC UPC4560G2
IC102	8-759-109-70	IC UPC4560G2
IC103	8-759-109-70	IC UPC4560G2
IC104	8-759-109-70	IC UPC4560G2
IC201	8-759-109-70	IC UPC4560G2
IC202	8-759-109-70	IC UPC4560G2
IC203	8-759-109-70	IC UPC4560G2
IC204	8-759-109-70	IC UPC4560G2
IC301	8-759-820-15	IC LC7537AN
IC302	8-759-932-64	IC BU4052BF
IC390	8-759-631-00	IC M5280FP
IC501	8-752-806-04	IC CXP5048H-188Q
IC502	8-752-330-59	IC CXK1011P
IC505	8-759-941-01	IC S-8053ALR-LJ

Ref.No.	Part No.	Description			
IC601	8-759-821-43	IC LC7218M			
*IC801	8-759-821-44	IC LC-7582			
JR101	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR102	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR103	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR104	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR105	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR106	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR107	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR108	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR109	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR110	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR201	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR202	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR203	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR204	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR205	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR206	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR207	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR208	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR209	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR210	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR211	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR401	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR402	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR404	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR406	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR409	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR410	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR411	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR412	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR413	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR414	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR501	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR502	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR503	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR504	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR505	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR506	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR507	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR508	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR509	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR512	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR513	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR514	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR515	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR516	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR517	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR518	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR519	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR520	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR521	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR522	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR523	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR524	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR525	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR526	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR527	1-216-296-00	METAL GLAZE	0	5%	1/8W

Ref.No.	Part No.	Description			
JR528	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR529	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR530	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR531	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR601	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR602	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR603	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR604	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR605	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR606	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR607	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR608	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR610	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR701	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR702	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR703	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR704	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR705	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR706	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR708	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR709	1-216-295-00	METAL GLAZE	0	5%	1/10W
L402	1-421-967-11	COIL, CHOKE 100UH			
L403	1-408-578-11	INDUCTOR 180UH			
L501	1-410-513-11	INDUCTOR 22UH			
L502	1-410-368-31	INDUCTOR 180UH			
L601	1-410-513-11	INDUCTOR 22UH			
L602	1-410-513-11	INDUCTOR 22UH			
L603	1-410-513-11	INDUCTOR 22UH			
LCD801	1-808-662-11	DISPLAY PANEL, LIQUID CRYSTAL			
PL801	1-518-524-11	LAMP, PILOT			
PL802	1-518-524-11	LAMP, PILOT			
PL803	1-518-646-11	LAMP, PILOT			
PL804	1-518-646-11	LAMP, PILOT			
Q101	8-729-920-21	TRANSISTOR DTC314TKH04			
Q102	8-729-920-21	TRANSISTOR DTC314TKH04			
Q201	8-729-920-21	TRANSISTOR DTC314TKH04			
Q202	8-729-920-21	TRANSISTOR DTC314TKH04			
Q301	8-729-901-00	TRANSISTOR DTC124EK			
Q302	8-729-901-00	TRANSISTOR DTC124EK			
Q401	8-729-901-05	TRANSISTOR DTA124EK			
Q402	8-729-901-00	TRANSISTOR DTC124EK			
Q403	8-729-901-00	TRANSISTOR DTC124EK			
Q404	8-729-901-00	TRANSISTOR DTC124EK			
Q405	8-729-216-22	TRANSISTOR 2SA1162-G			
Q407	8-729-901-00	TRANSISTOR DTC124EK			
Q409	8-729-820-46	TRANSISTOR 2SB1202FAS			
Q410	8-729-820-46	TRANSISTOR 2SB1202FAS			
Q411	8-729-807-12	TRANSISTOR 2SD1802-S			
Q412	8-729-807-12	TRANSISTOR 2SD1802-S			
Q413	8-729-807-12	TRANSISTOR 2SD1802-S			
Q414	8-729-901-00	TRANSISTOR DTC124EK			
Q415	8-729-901-00	TRANSISTOR DTC124EK			
Q416	8-729-808-02	TRANSISTOR 2SD1622			
Q417	8-729-901-05	TRANSISTOR DTA124EK			
Q418	8-729-901-00	TRANSISTOR DTC124EK			
Q419	8-729-804-42	TRANSISTOR 2SB1122-T			
Q420	8-729-804-42	TRANSISTOR 2SB1122-T			
Q421	8-729-271-23	TRANSISTOR 2SC2712			

Ref.No.	Part No.	Description
Q422	8-729-271-23	TRANSISTOR 2SC2712
Q423	8-729-807-12	TRANSISTOR 2SD1802-S
Q424	8-729-901-00	TRANSISTOR DTC124EK
Q501	8-729-901-00	TRANSISTOR DTC124EK
Q502	8-729-901-05	TRANSISTOR DTA124EK
Q503	8-729-901-06	TRANSISTOR DTA144EK
Q505	8-729-901-05	TRANSISTOR DTA124EK
Q506	8-729-901-05	TRANSISTOR DTA124EK
Q507	8-729-901-05	TRANSISTOR DTA124EK
Q508	8-729-271-23	TRANSISTOR 2SC2712
Q509	8-729-901-05	TRANSISTOR DTA124EK
Q510	8-729-901-00	TRANSISTOR DTC124EK
Q601	8-729-804-42	TRANSISTOR 2SB1122-T
Q602	8-729-216-22	TRANSISTOR 2SA1162-G
Q603	8-729-271-23	TRANSISTOR 2SC2712
Q604	8-729-271-23	TRANSISTOR 2SC2712
Q607	8-729-271-23	TRANSISTOR 2SC2712
Q608	8-729-901-05	TRANSISTOR DTA124EK
Q609	8-729-216-22	TRANSISTOR 2SA1162-G
Q610	8-729-901-00	TRANSISTOR DTC124EK
Q701	8-729-807-12	TRANSISTOR 2SD1802-S
Q702	8-729-804-42	TRANSISTOR 2SB1122-T
Q703	8-729-807-12	TRANSISTOR 2SD1802-S
Q704	8-729-808-02	TRANSISTOR 2SD1622
Q705	8-729-901-00	TRANSISTOR DTC124EK
Q706	8-729-920-21	TRANSISTOR DTC314TKH04
Q707	8-729-901-00	TRANSISTOR DTC124EK
Q708	8-729-808-02	TRANSISTOR 2SD1622
Q709	8-729-808-02	TRANSISTOR 2SD1622
Q710	8-729-901-00	TRANSISTOR DTC124EK
Q711	8-729-901-05	TRANSISTOR DTA124EK
R101	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R102	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R103	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R104	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R105	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R106	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R107	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R108	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R109	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R110	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R112	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R113	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R114	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R115	1-216-041-00	METAL GLAZE 470 5% 1/10W
R116	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R117	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R118	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R119	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R120	1-216-246-00	METAL GLAZE 100K 5% 1/8W
R121	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R122	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R201	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R202	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R203	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R204	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R205	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W

Ref.No.	Part No.	Description
R206	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R207	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R208	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R209	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R210	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R212	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R213	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R214	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R215	1-216-041-00	METAL GLAZE 470 5% 1/10W
R216	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R217	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R218	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R219	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R220	1-216-246-00	METAL GLAZE 100K 5% 1/8W
R221	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R222	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R301	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R302	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W
R303	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W
R304	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W
R305	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R306	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R390	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W
R391	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R401	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R402	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R403	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R404	1-216-190-00	METAL GLAZE 470 5% 1/8W
R405	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R406	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R407	1-216-184-00	METAL GLAZE 270 5% 1/8W
R408	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R409	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R413	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R414	1-216-091-00	METAL GLAZE 56K 5% 1/10W
R415	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R416	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R417	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R418	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R419	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R420	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R421	1-216-194-00	METAL GLAZE 680 5% 1/8W
R422	1-216-200-00	METAL GLAZE 1.2K 5% 1/8W
R423	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R424	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R425	1-216-041-00	METAL GLAZE 470 5% 1/10W
R426	1-216-238-00	METAL GLAZE 47K 5% 1/8W
R427	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R428	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R429	1-216-190-00	METAL GLAZE 470 5% 1/8W
R430	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R431	1-249-437-11	CARBON 47K 5% 1/8W
R501	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R502	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R503	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R504	1-216-089-00	METAL GLAZE 47K 5% 1/10W

Ref.No.	Part No.	Description			
R505	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R506	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R507	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R508	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R509	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R510	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R511	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R513	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R514	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R515	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R516	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R520	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R521	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R522	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R523	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R524	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R525	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R526	1-232-240-00	COMPOSITION CIRCUIT		BLOCK	100KX5
R527	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R528	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R529	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R530	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R531	1-249-437-11	CARBON	47K	5%	1/4W
R601	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R602	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R603	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R604	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R605	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R606	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R607	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R608	1-216-058-00	METAL GLAZE	2.2K	5%	1/10W
R609	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R610	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R611	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R613	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R614	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R616	1-216-080-00	METAL GLAZE	20K	5%	1/10W
R617	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R618	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R619	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R620	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R621	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R622	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R623	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R624	1-216-194-00	METAL GLAZE	680	5%	1/8W
R625	1-216-043-00	METAL GLAZE	560	5%	1/10W
R637	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R638	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R701	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R702	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R703	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R704	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R705	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R706	1-216-200-00	METAL GLAZE	1.2K	5%	1/8W

Ref.No.	Part No.	Description			
R707	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R708	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R709	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R710	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R801	1-216-239-00	METAL GLAZE	51K	5%	1/8W
R802	1-216-182-00	METAL GLAZE	220	5%	1/8W
R803	1-216-178-00	METAL GLAZE	150	5%	1/8W
R804	1-216-182-00	METAL GLAZE	220	5%	1/8W
R805	1-216-178-00	METAL GLAZE	150	5%	1/8W
R806	1-216-182-00	METAL GLAZE	220	5%	1/8W
R807	1-216-178-00	METAL GLAZE	150	5%	1/8W
R808	1-216-184-00	METAL GLAZE	270	5%	1/8W
R809	1-216-176-00	METAL GLAZE	120	5%	1/8W
R810	1-216-184-00	METAL GLAZE	270	5%	1/8W
R811	1-216-188-00	METAL GLAZE	390	5%	1/8W
R812	1-216-184-00	METAL GLAZE	270	5%	1/8W
R813	1-216-188-00	METAL GLAZE	390	5%	1/8W
R814	1-216-178-00	METAL GLAZE	150	5%	1/8W
R815	1-216-182-00	METAL GLAZE	220	5%	1/8W
R816	1-216-178-00	METAL GLAZE	150	5%	1/8W
R817	1-216-182-00	METAL GLAZE	220	5%	1/8W
R818	1-216-188-00	METAL GLAZE	390	5%	1/8W
R819	1-216-184-00	METAL GLAZE	270	5%	1/8W
R820	1-216-188-00	METAL GLAZE	390	5%	1/8W
R821	1-216-184-00	METAL GLAZE	270	5%	1/8W
RV601	1-228-994-00	RES, ADJ, CARBON 10K			
RV602	1-228-997-00	RES, ADJ, CARBON 100K			
SW802	1-554-813-41	SWITCH, KEY BOARD (CD ▶II)			
SW803	1-554-813-41	SWITCH, KEY BOARD (FM/AM)			
SW804	1-554-813-41	SWITCH, KEY BOARD (⏏)			
SW805	1-554-813-41	SWITCH, KEY BOARD (6)			
SW806	1-554-813-41	SWITCH, KEY BOARD (SHUF/3)			
SW807	1-554-813-41	SWITCH, KEY BOARD (SEEK AMS -⏮)			
SW808	1-554-813-41	SWITCH, KEY BOARD (SEEK AMS +⏭)			
SW809	1-554-813-41	SWITCH, KEY BOARD (5)			
SW810	1-554-813-41	SWITCH, KEY BOARD (REP/2)			
SW811	1-554-813-41	SWITCH, KEY BOARD (1)			
SW812	1-554-813-41	SWITCH, KEY BOARD (4)			
SW813	1-554-813-41	SWITCH, KEY BOARD (LEVEL +)			
SW814	1-554-813-41	SWITCH, KEY BOARD (SELECT)			
SW815	1-554-813-41	SWITCH, KEY BOARD (MANU - ▶▶)			
SW816	1-554-813-41	SWITCH, KEY BOARD (MANU + ◀◀)			
SW817	1-554-813-41	SWITCH, KEY BOARD (LEVEL -)			
SW818	1-554-813-41	SWITCH, KEY BOARD (MUTE)			
SW819	1-554-813-41	SWITCH, KEY BOARD (A.MEM/M.SCAN)			
SW820	1-554-813-41	SWITCH, KEY BOARD (LCL)			
SW821	1-554-813-41	SWITCH, KEY BOARD (MONO)			
SW823	1-554-813-41	SWITCH, KEY BOARD (RESET)			
SW824	1-554-813-41	SWITCH, KEY BOARD (OFF)			
SW901	1-570-771-11	SWITCH (CASE DET)			
X501	1-567-170-00	OSCILLATOR, CERAMIC (4.19MHz)			
X601	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)			
X602	1-567-250-11	OSCILLATOR, CERAMIC (18.75kHz)			

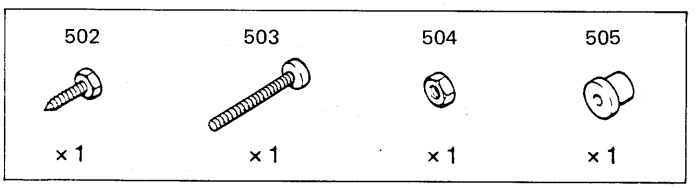
MOUNTING HARDWARE

No.	Part No.	Descrition
502	3-302-126-01	SCREW TAPPING (DIA 5X20)
503	7-682-183-01	SCREW +P 5X40
504	7-684-025-04	N 5
505	3-349-410-01	BUSHING

ACCESSORY & PACKING MATERIAL

3-310-655-01	SUPPORT (ND), FITTING
3-323-206-01	STOPPER (LARGE)
3-336-617-01	BAG, PROTECTION
3-339-410-01	COVER, PIN JACK
3-345-355-01	INDIVIDUAL CARTON
3-345-359-01	CUSHION (UPPER)
3-345-360-01	CUSHION (LOWER)
3-750-366-11	MANUAL, INSTRUCTION
3-750-367-11	MANUAL, INSTRUCTION

SUPPLIED MOUNTING HARDWARE



(MD SECTION)

Ref.No.	Part No.	Description			
920	*1-628-911-11	PC BOARD, TRANSLATION			
921	*1-628-910-11	PC BOARD, SENSOR			
922	*1-628-912-11	PC BOARD, LED			
923	*A-3260-882-A	MOUNTED PCB, MD MAIN			
924	1-629-581-11	PC BOARD, SENSOR FILEXIBLE			
925	1-629-582-11	PC BOARD, TRANSLATION FLEXIBLE			
926	⚠8-848-124-11	DEVICE, OPTICAL KSS-168ARP			
927	*1-628-450-11	METAL SW BOARD			
C1	1-126-591-11	ELECT	10MF	20%	6.3V
C2	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C3	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C101	1-126-591-11	ELECT	10MF	20%	6.3V
C102	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C103	1-162-977-11	CERAMIC CHIP	0.0018MF	10%	50V
C104	1-162-955-11	CERAMIC CHIP	150PF	5%	50V
C105	1-126-592-11	ELECT	4.7MF	20%	16V
C201	1-126-591-11	ELECT	10MF	20%	6.3V
C202	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C203	1-162-977-11	CERAMIC CHIP	0.0018MF	10%	50V
C204	1-162-955-11	CERAMIC CHIP	150PF	5%	50V
C205	1-126-592-11	ELECT	4.7MF	20%	16V
C301	1-162-638-11	CERAMIC CHIP	1MF		16V
C302	1-162-638-11	CERAMIC CHIP	1MF		16V
C303	1-126-592-11	ELECT	4.7MF	20%	16V
C305	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C306	1-126-599-61	ELECT	330MF	20%	6.3V
C307	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C308	1-126-599-61	ELECT	330MF	20%	6.3V
C309	1-162-638-11	CERAMIC CHIP	1MF		16V
C321	1-126-592-11	ELECT	4.7MF	20%	16V
C322	1-162-638-11	CERAMIC CHIP	1MF		16V
C323	1-126-592-11	ELECT	4.7MF	20%	16V
C402	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C411	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C412	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C421	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C422	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C431	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C432	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C441	1-124-478-11	ELECT	100MF	20%	25V
C442	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C443	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C444	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C501	1-126-590-11	ELECT	22MF	20%	4V

Ref.No.	Part No.	Description			
C502	1-135-166-21	TANTAL. CHIP	47MF	20%	6.3V
C503	1-126-590-11	ELECT	22MF	20%	4V
C504	1-162-638-11	CERAMIC CHIP	1MF		16V
C505	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C506	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C508	1-126-590-11	ELECT	22MF	20%	4V
C509	1-162-638-11	CERAMIC CHIP	1MF		16V
C510	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C511	1-126-593-11	ELECT	0.47MF	20%	50V
C512	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C513	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C514	1-162-968-11	CERAMIC CHIP	0.0047MF	10%	50V
C515	1-162-964-11	CERAMIC CHIP	0.001MF	10%	50V
C516	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C517	1-162-968-11	CERAMIC CHIP	0.0047MF	10%	50V
C518	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C519	1-126-593-11	ELECT	0.47MF	20%	50V
C520	1-162-964-11	CERAMIC CHIP	0.001MF	10%	50V
C521	1-126-590-11	ELECT	22MF	20%	4V
C522	1-162-968-11	CERAMIC CHIP	0.0047MF	10%	50V
C523	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C524	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C525	1-135-085-21	TANTAL. CHIP	4.7MF	20%	25V
C526	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C527	1-162-638-11	CERAMIC CHIP	1MF		16V
C528	1-126-590-11	ELECT	22MF	20%	4V
C529	1-126-591-11	ELECT	10MF	20%	6.3V
C530	1-126-591-11	ELECT	10MF	20%	6.3V
C531	1-162-638-11	CERAMIC CHIP	1MF		16V
C532	1-126-590-11	ELECT	22MF	20%	4V
C533	1-126-594-11	ELECT	1MF	20%	50V
C534	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C535	1-162-941-11	CERAMIC CHIP	10PF	0.5PF	50V
C536	1-162-943-11	CERAMIC CHIP	15PF	5%	50V
C537	1-162-638-11	CERAMIC CHIP	1MF		16V
C539	1-162-638-11	CERAMIC CHIP	1MF		16V
C541	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C601	1-126-247-11	ELECT	560MF	20%	6.3V
C602	1-126-316-51	ELECT	470MF	20%	16V
C701	1-125-486-11	CAP,DUBLE LAYERS	0.22F		5.5V
CNJ1	1-566-532-11	CONNECTOR, FPC (ZIF) 16P			
CNJ2	1-566-526-11	CONNECTOR, FPC (ZIF) 10P			
CNJ3	1-568-141-11	HOUSING, CONNECTOR 5P			
CNJ4	1-568-142-11	HOUSING, CONNECTOR 13P			
CNP3	*1-566-188-11	PIN, CONNECTOR (PC BOARD) 9P			
CNP601	*1-566-012-11	PIN, CONNECTOR (PC BOARD) 15P			

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
D1	8-719-940-38	DIODE DCB015
D301	8-719-105-82	DIODE RD5.1M-B2
D401	8-719-940-35	DIODE DCA015
D402	8-719-940-18	DIODE DSA015
D403	8-719-106-53	DIODE RD10M-B2
D631	8-719-404-27	DIODE LN1261C
D632	8-719-404-27	DIODE LN1261C
D633	8-719-404-27	DIODE LN1261C
D701	8-719-913-44	DIODE ERA82-004
IC1	8-752-806-97	IC CXP5068H-007Q
IC301	8-759-971-58	IC PCM60P
IC302	8-759-109-70	IC UPC4560G2
IC401	8-759-604-56	IC M5228FP
IC402	8-759-604-56	IC M5228FP
IC501	8-759-937-87	IC CXA1081Q
IC502	8-752-032-29	IC CXA1082BQ
IC503	8-759-947-03	IC CXD1130Q
IC504	8-752-323-64	IC CXK5816M-12L
JW1	1-216-296-00	METAL GLAZE 0 5% 1/8W
L1	1-410-204-31	INDUCTOR CHIP 10UH
L501	1-410-204-31	INDUCTOR CHIP 10UH
L503	1-410-198-51	INDUCTOR CHIP 3.3UH
M901	A-4910-183-A	MOTOR ASSY, SL (SLED)
M902	1-541-448-41	MOTOR (SPINDLE)
M903	A-3249-213-A	GEAR (A) ASSY (LOADING)
PM901	1-454-461-11	SOLENOID, PLUNGER
Q101	8-729-920-31	TRANSISTOR DTC343TK
Q201	8-729-920-31	TRANSISTOR DTC343TK
Q301	8-729-921-11	TRANSISTOR IMB1
Q302	8-729-320-66	TRANSISTOR 2SD1870
Q303	8-729-920-59	TRANSISTOR IMX2
Q401	8-729-907-00	TRANSISTOR DTC114EU
Q402	8-729-808-42	TRANSISTOR 2SD1624-T
Q403	8-729-820-60	TRANSISTOR 2SB1124S
Q404	8-729-808-42	TRANSISTOR 2SD1624-T
Q405	8-729-820-60	TRANSISTOR 2SB1124S
Q406	8-729-808-42	TRANSISTOR 2SD1624-T
Q407	8-729-820-60	TRANSISTOR 2SB1124S
Q408	8-729-808-42	TRANSISTOR 2SD1624-T
Q409	8-729-820-60	TRANSISTOR 2SB1124S
Q410	8-729-808-42	TRANSISTOR 2SD1624-T
Q411	8-729-820-60	TRANSISTOR 2SB1124S
Q412	8-729-808-42	TRANSISTOR 2SD1624-T
Q413	8-729-820-60	TRANSISTOR 2SB1124S

Ref.No.	Part No.	Description
Q414	8-729-808-42	TRANSISTOR 2SD1624-T
Q415	8-729-820-60	TRANSISTOR 2SB1124S
Q416	8-729-808-42	TRANSISTOR 2SD1624-T
Q417	8-729-820-60	TRANSISTOR 2SB1124S
Q418	8-729-301-98	TRANSISTOR 2SB1000AL
Q419	8-729-301-98	TRANSISTOR 2SB1000AL
Q420	8-729-920-28	TRANSISTOR FMG9
Q421	8-729-320-66	TRANSISTOR 2SD1870
Q422	8-729-320-66	TRANSISTOR 2SD1870
Q423	8-729-922-94	TRANSISTOR DTC143TU
Q424	8-729-907-00	TRANSISTOR DTC114EU
Q425	8-729-808-42	TRANSISTOR 2SD1624-T
Q501	8-729-162-44	TRANSISTOR 2SB624-BV4
Q502	8-729-100-76	TRANSISTOR 2SA812
Q503	8-729-920-28	TRANSISTOR FMG9
Q504	8-729-907-00	TRANSISTOR DTC114EU
Q621	8-729-402-08	TRANSISTOR PN147-LF-R
Q622	8-729-402-08	TRANSISTOR PN147-LF-R
Q623	8-729-402-08	TRANSISTOR PN147-LF-R
R1	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R2	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R3	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R4	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R5	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R6	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R7	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R8	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R9	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R10	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R11	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R12	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R13	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R14	1-216-857-11	METAL GLAZE 1M 5% 1/16W
R16	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R17	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R102	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R103	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R104	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R105	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R106	1-216-835-11	METAL GLAZE 15K 5% 1/16W
R107	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R202	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R203	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R204	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R205	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R206	1-216-835-11	METAL GLAZE 15K 5% 1/16W

Ref.No.	Part No.	Description			
R207	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R301	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R302	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R321	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R322	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R323	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R401	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R402	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R403	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R404	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R405	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R406	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R411	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R412	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R413	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R414	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R415	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R416	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R421	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R422	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R423	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R424	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R425	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R426	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R431	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R432	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R433	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R434	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R435	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R436	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R441	1-216-835-11	METAL GLAZE	15K	5%	1/16W
R442	1-216-835-11	METAL GLAZE	15K	5%	1/16W
R443	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R444	1-216-848-11	METAL GLAZE	180K	5%	1/16W
R445	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R446	1-218-348-11	METAL GLAZE	110K	5%	1/16W
R447	1-218-347-11	METAL GLAZE	91K	5%	1/16W
R448	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R449	1-216-850-11	METAL GLAZE	270K	5%	1/16W
R450	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R451	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R452	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R453	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R454	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R455	1-216-150-00	METAL GLAZE	10	5%	1/8W
R456	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R502	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R503	1-216-150-00	METAL GLAZE	10	5%	1/8W
R504	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R505	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R506	1-216-809-11	METAL GLAZE	100	5%	1/16W

Ref.No.	Part No.	Description			
R507	1-218-330-91	METAL GLAZE	11K	5%	1/16W
R508	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R509	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R510	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R511	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R512	1-216-865-11	METAL GLAZE	3K	5%	1/16W
R513	1-216-847-11	METAL GLAZE	150K	5%	1/16W
R514	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R515	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R516	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R517	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R518	1-218-349-11	METAL GLAZE	240K	5%	1/16W
R519	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R520	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R521	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R522	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R523	1-216-850-11	METAL GLAZE	270K	5%	1/16W
R524	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R525	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R526	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R527	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R528	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R530	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R531	1-216-150-00	METAL GLAZE	10	5%	1/8W
R532	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R533	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R631	1-216-192-00	METAL GLAZE	560	5%	1/8W
RV401	1-238-089-11	RES, ADJ CERMET 4.7K			
RV501	1-238-352-11	RES, ADJ, CERMET 22K			
RV502	1-238-353-11	RES, ADJ, CERMET 47K			
RV503	1-230-871-11	RES, ADJ, METAL GLAZE 22K			
RV504	1-230-871-11	RES, ADJ, METAL GLAZE 22K			
RV505	1-230-868-11	RES, ADJ, METAL GLAZE 2.2K			
SW621	1-571-754-11	SWITCH, PUSH (1 KEY)(SHUTTER DET)			
SW622	1-571-754-11	SWITCH, PUSH (1 KEY)(DISC DET)			
SW631	1-554-938-11	SWITCH, LEAF (LIMIT)			
SW632	1-554-938-11	SWITCH, LEAF (LOCK GEAR DET)			
TH441	1-808-656-11	THERMISTOR			
TH442	1-808-656-11	THERMISTOR			
TH501	1-808-656-11	THERMISTOR			
X1	1-577-273-11	OSCILLATOR, CERAMIC (4.19MHz)			
X501	1-577-274-11	VIBRATOR, CRYSTAL (16.93MHz)			

CDX-R79L

SONY®

SERVICE MANUAL

UK Model
French Model

SUPPLEMENT-1

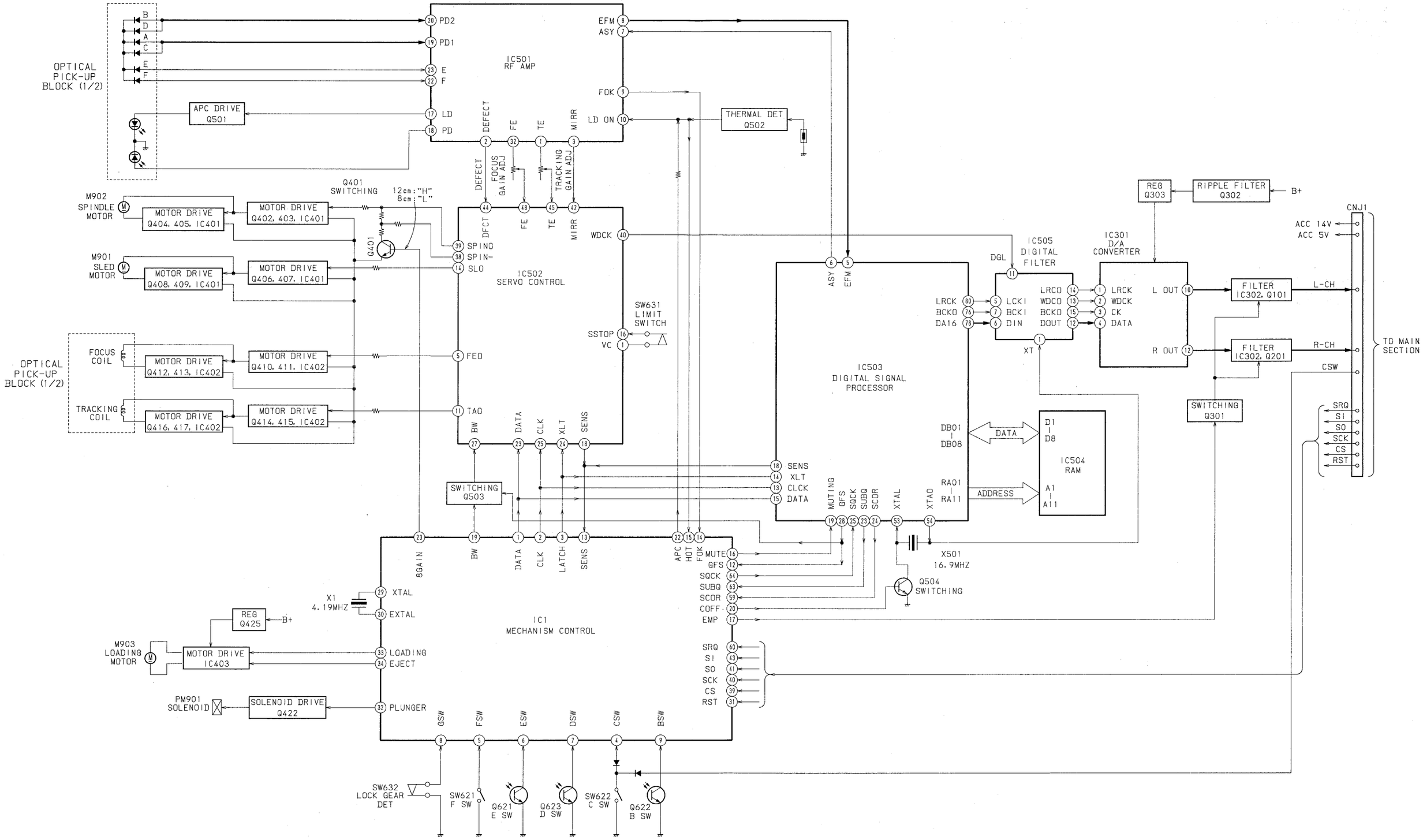
File this supplement with the Service Manual.

Subject: MD MAIN BOARD'S MODIFICATION

Serial No. 500,001 and later.

SECTION 6
DIAGRAMS

6-2. BLOCK DIAGRAM (MD Section)



Note: (MD SECTION)

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ———: B +line
- ▭: adjustment for repair.
- Power voltage is dc 14.4V and fed with regurated dc power. supply from battery and accesory terminal.
- Voltages and waveforms are dc with respect to ground under no signal conditions.
  no mark: STOP
  ( ) : PLAY
- Voltages are taken with a VOM. (Inout impedance 10M Ω) Voltage variations may be noted due to normal production torerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

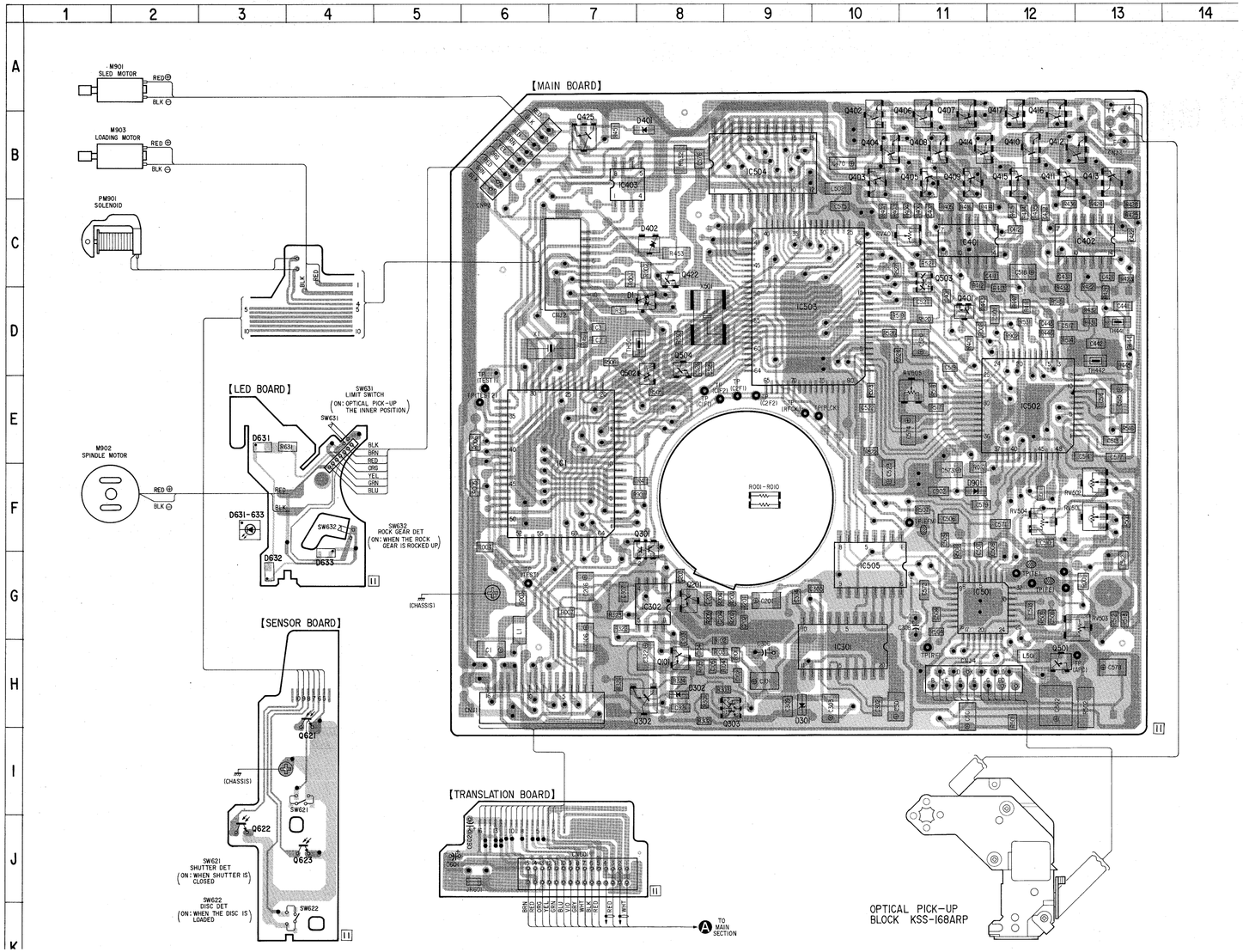
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

● SEMICONDUCTOR LOCATION (MD Section)

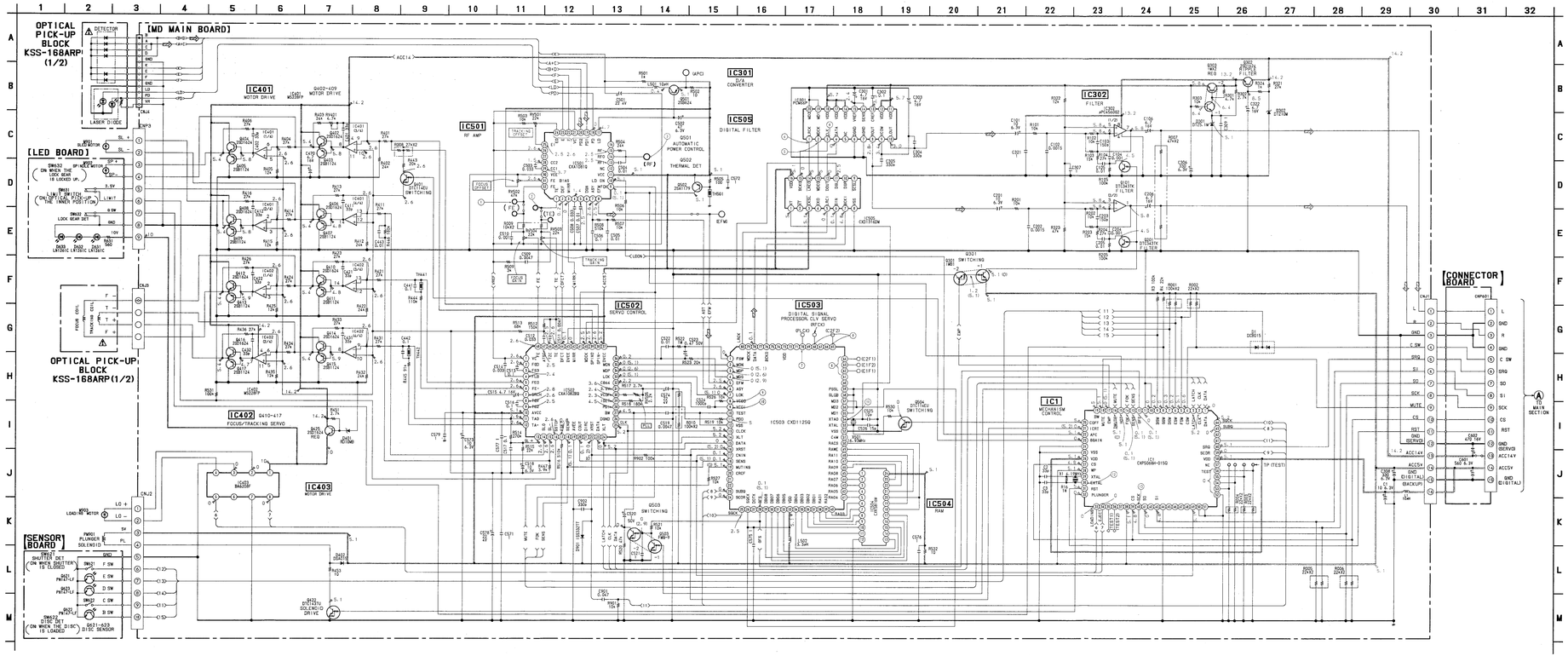
Ref. No.	Location No.	Ref. No.	Location No.
D1	D-8	Q401	D-11
D301	H-9	Q402	B-10
D302	H-8	Q403	B-10
D401	B-8	Q404	B-10
D402	C-8	Q405	B-11
D631	E-3	Q406	B-11
D632	G-3	Q407	B-11
D633	G-4	Q408	B-11
D901	F-11	Q409	B-11
		Q410	B-12
IC1	E-7	Q411	B-12
IC301	H-10	Q412	B-12
IC302	G-8	Q413	B-13
IC401	C-11	Q414	B-11
IC402	C-13	Q415	B-12
IC403	B-7	Q416	B-12
IC501	G-11	Q417	B-12
IC502	E-12	Q422	C-8
IC503	D-9	Q425	B-7
IC504	B-9	Q501	H-12
IC505	G-10	Q502	D-8
		Q503	C-11
Q101	H-8	Q504	D-8
Q201	G-8	Q621	I-4
Q301	F-8	Q622	J-3
Q302	H-8	Q623	J-4
Q303	H-9		

- ○——: parts extracted from the component side.
- ———: parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒: Pattern on the side which is seen.
- ▒▒: Pattern of the rear side.

6-4. PRINTED WIRING BOARDS (MD Section)


【MAIN BOARD】
【LED BOARD】
【SENSOR BOARD】
【TRANSLATION BOARD】
M901 SLED MOTOR
M903 LOADING MOTOR
PM901 SOLENOID
M902 SPINDLE MOTOR
SW631 LIMIT SWITCH (ON: OPTICAL PICK-UP THE INNER POSITION)
SW632 ROCK GEAR DET (ON: WHEN THE ROCK GEAR IS ROCKED UP)
SW621 SHUTTER DET (ON: WHEN SHUTTER IS CLOSED)
SW622 DISC DET (ON: WHEN THE DISC IS LOADED)
(CHASSIS)
TO MAIN SECTION
OPTICAL PICK-UP BLOCK KSS-168ARP

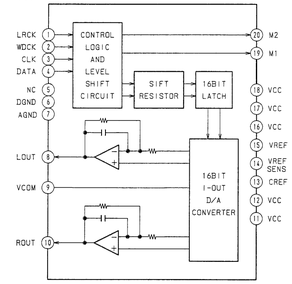
6-5. SCHEMATIC DIAGRAM (MD Section) • Refer to page 4 for note.



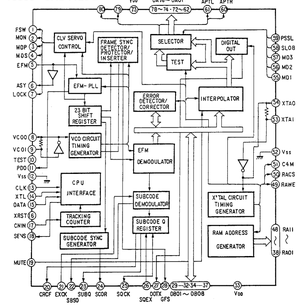
6-10. IC BLOCK DIAGRAMS

(MD SECTION)

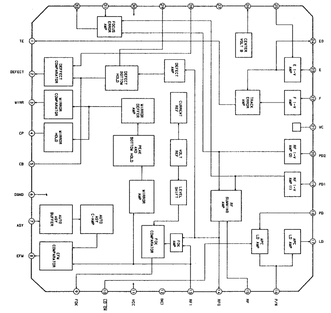
IC301 PCM-66P



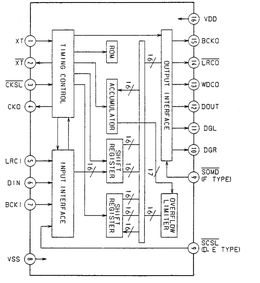
IC503 CXD1125Q



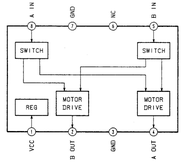
IC501 CXA1081Q



IC505 CXD1316DM



IC403 BA6208F



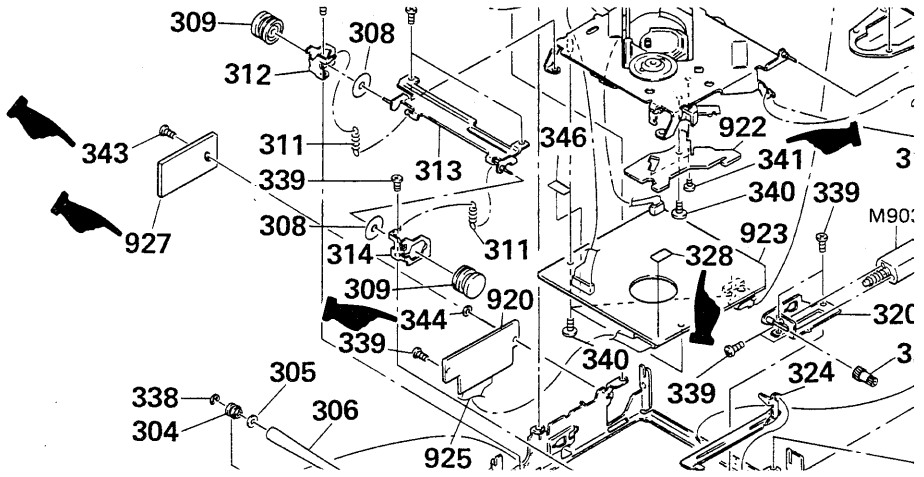
SECTION 7
EXPLODED VIEWS

FORMER Type			NEW Type		
927	METAL SW BOARD				Removed.
328	SHEET (P)				Removed.
341	SCREW, +P 1.4X3			7-627-850-57	SCREW +P 1.4X3.5
343	SCREW, +P 2X6		339	7-627-553-27	SCREW +B 2X2.5
344	SPACER				Removed.

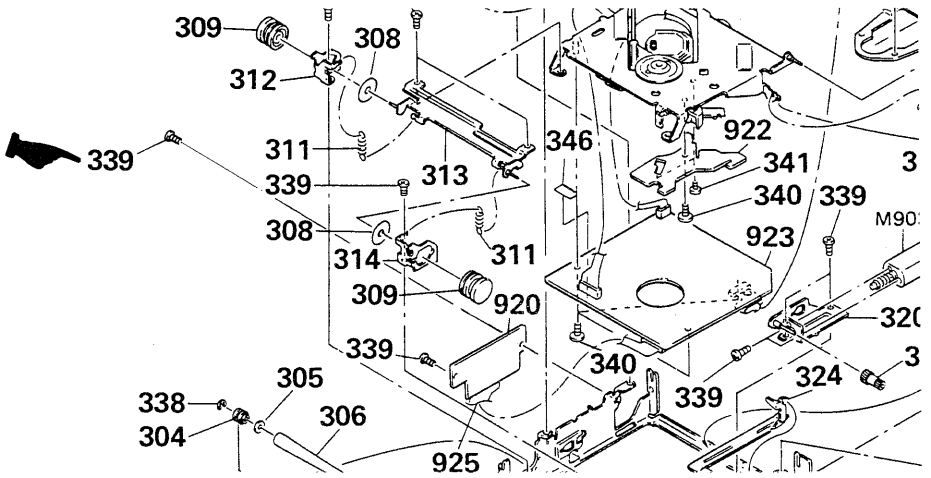
: Changed portion

FORMER Type

P43. 4. MD SECTION (1)



NEW Type



SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description		
920	*1-633-157-11	PC BOARD, CONNECTOR		
921	*1-633-158-11	PC BOARD, SENSOR		
922	*1-633-159-11	PC BOARD, LED		
923	*A-3261-070-A	MOUNTED PCB, MD MAIN		
924	1-629-581-11	PC BOARD, SENSOR FILEXIBLE		
925	1-629-582-11	PC BOARD, TRANSLATION FLEXIBLE		
926	⚠8-848-124-11	DVICE, OPTICAL KSS-168ARP		
C1	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C2	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C3	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C101	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C102	1-162-965-11	CERAMIC CHIP 0.0015MF	10%	50V
C103	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C104	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C105	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C106	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C201	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C202	1-162-965-11	CERAMIC CHIP 0.0015MF	10%	50V
C203	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C204	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C205	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C206	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C301	1-135-155-21	TANTAL. CHIP 4.7MF	10%	16V
C302	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C303	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C304	1-162-961-11	CERAMIC CHIP 330PF	10%	50V
C305	1-162-961-11	CERAMIC CHIP 330PF	10%	50V
C306	1-126-599-11	ELECT 330MF	20%	6.3V
C307	1-164-346-11	CERAMIC CHIP 1MF		16V
C308	1-126-599-11	ELECT 330MF	20%	6.3V
C309	1-164-346-11	CERAMIC CHIP 1MF		16V
C321	1-164-346-11	CERAMIC CHIP 1MF		16V
C322	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C401	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C402	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C411	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C412	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C421	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C422	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C431	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C432	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C441	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C442	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C443	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C470	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C501	1-126-590-11	ELECT CHIP 22MF	20%	4V
C502	1-135-166-21	TANTAL. CHIP 47MF	20%	6.3V
C503	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C504	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C505	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C506	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C507	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C508	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C509	1-162-968-11	CERAMIC CHIP 0.0047MF	10%	50V
C510	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C511	1-162-968-11	CERAMIC CHIP 0.0047MF	10%	50V
C512	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C513	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C514	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C515	1-135-155-21	TANTAL. CHIP 4.7MF	10%	16V
C516	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C517	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C518	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C519	1-162-968-11	CERAMIC CHIP 0.0047MF	10%	50V
C520	1-126-594-11	ELECT CHIP 1MF	20%	50V
C521	1-164-346-11	CERAMIC CHIP 1MF		16V
C522	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C523	1-126-593-11	ELECT CHIP 0.47MF	20%	50V
C524	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C525	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V
C526	1-162-943-11	CERAMIC CHIP 15PF	5%	50V
C571	1-164-346-11	CERAMIC CHIP 1MF		16V
C572	1-164-346-11	CERAMIC CHIP 1MF		16V
C573	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C574	1-126-590-11	ELECT CHIP 22MF	20%	4V
C575	1-164-346-11	CERAMIC CHIP 1MF		16V
C576	1-164-346-11	CERAMIC CHIP 1MF		16V
C577	1-164-346-11	CERAMIC CHIP 1MF		16V
C578	1-126-590-11	ELECT CHIP 22MF	20%	4V
C579	1-164-346-11	CERAMIC CHIP 1MF		16V
C601	1-126-247-11	ELECT 560MF	20%	6.3V
C602	1-126-316-51	ELECT 470MF	20%	16V
C901	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C902	1-162-961-11	CERAMIC CHIP 330PF	10%	50V
CNJ1	1-566-532-11	CONNECTOR, FPC (ZIF) 16P		
CNJ2	1-566-526-11	CONNECTOR, FPC (ZIF) 10P		
CNJ3	1-568-141-11	HOUSING, CONNECTOR 5P		
CNJ4	1-568-142-11	HOUSING, CONNECTOR 13P		
CNP3	*1-566-188-11	PIN, CONNECTOR (PC BOARD) 9P		
CNP601	*1-566-012-11	PIN, CONNECTOR (PC BOARD) 15P		

Ref.No.	Part No.	Description
D1	8-719-400-18	DIODE MA152WK
D301	8-719-976-99	DIODE DTZ5.1B
D302	8-719-977-28	DIODE DTZ10B
D401	8-719-977-28	DIODE DTZ10B
D402	8-719-108-24	DIODE 1SS223
D631	8-719-404-27	DIODE LN1261C
D632	8-719-404-27	DIODE LN1261C
D633	8-719-404-27	DIODE LN1261C
D901	8-719-976-31	DIODE 1SS332
IC1	8-752-812-10	IC CXP5068H-015Q
IC301	8-759-983-79	IC PCM66P
IC302	8-759-981-XX	IC NJM4560M
IC401	8-759-604-56	IC M5228FP
IC402	8-759-604-56	IC M5228FP
IC403	8-759-996-45	IC BA6208F
IC501	8-752-033-14	IC CXA1081Q
IC502	8-752-037-50	IC CXA1082BQ
IC503	8-752-332-38	IC CXD1125Q
IC504	8-752-323-65	IC CXK5816M-15L
IC505	8-759-946-27	IC CXD1316DM
JR601	1-216-296-00	METAL GLAZE 0 5% 1/8W
L1	1-410-204-31	INDUCTOR CHIP 10UH
L501	1-410-204-31	INDUCTOR CHIP 10UH
L502	1-410-198-51	INDUCTOR CHIP 3.3UH
M901	A-4910-183-A	MOTOR ASSY (SLED)
M902	1-541-448-41	MOTOR (SPINDLE)
M903	A-3249-213-A	GEAR (A) ASSY (LOADING)
PM901	1-454-461-11	SOLENOID, PLUNGER
Q101	8-729-920-31	TRANSISTOR DTC343TK
Q201	8-729-920-31	TRANSISTOR DTC343TK
Q301	8-729-921-11	TRANSISTOR IMB1
Q302	8-729-808-42	TRANSISTOR 2SD1624-T
Q303	8-729-920-59	TRANSISTOR IMX2
Q401	8-729-907-00	TRANSISTOR DTC114EU
Q402	8-729-808-42	TRANSISTOR 2SD1624-T
Q403	8-729-820-60	TRANSISTOR 2SB1124S
Q404	8-729-808-42	TRANSISTOR 2SD1624-T
Q405	8-729-820-60	TRANSISTOR 2SB1124S
Q406	8-729-808-42	TRANSISTOR 2SD1624-T
Q407	8-729-820-60	TRANSISTOR 2SB1124S
Q408	8-729-808-42	TRANSISTOR 2SD1624-T
Q409	8-729-820-60	TRANSISTOR 2SB1124S
Q410	8-729-808-42	TRANSISTOR 2SD1624-T

Ref.No.	Part No.	Description
Q411	8-729-820-60	TRANSISTOR 2SB1124S
Q412	8-729-808-42	TRANSISTOR 2SD1624-T
Q413	8-729-820-60	TRANSISTOR 2SB1124S
Q414	8-729-808-42	TRANSISTOR 2SD1624-T
Q415	8-729-820-60	TRANSISTOR 2SB1124S
Q416	8-729-808-42	TRANSISTOR 2SD1624-T
Q417	8-729-820-60	TRANSISTOR 2SB1124S
Q422	8-729-922-94	TRANSISTOR DTC143TU
Q425	8-729-808-42	TRANSISTOR 2SD1624-T
Q501	8-729-162-43	TRANSISTOR 2SB624-BV3
Q502	8-729-216-22	TRANSISTOR 2SA1162
Q503	8-729-920-28	TRANSISTOR FMG9
Q504	8-729-907-00	TRANSISTOR DTC114EU
Q621	8-729-402-08	TRANSISTOR PN147-LF-R
Q622	8-729-402-08	TRANSISTOR PN147-LF-R
Q623	8-729-402-08	TRANSISTOR PN147-LF-R
R3	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R4	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R16	1-216-857-11	METAL GLAZE 1M 5% 1/16W
R001	1-236-436-11	NETWORK, RES 100K
R002	1-236-428-11	NETWORK, RES 22K
R003	1-236-428-11	NETWORK, RES 22K
R004	1-236-428-11	NETWORK, RES 22K
R005	1-236-428-11	NETWORK, RES 22K
R006	1-236-428-11	NETWORK, RES 22K
R007	1-236-432-11	NETWORK, RES 47K
R008	1-236-429-11	NETWORK, RES 27K
R009	1-236-424-11	NETWORK, RES 10K
R010	1-236-436-11	NETWORK, RES 100K
R101	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R102	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R103	1-216-835-11	METAL GLAZE 15K 5% 1/16W
R104	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R105	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R201	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R202	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R203	1-216-835-11	METAL GLAZE 15K 5% 1/16W
R204	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R205	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R301	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R302	1-216-826-11	METAL GLAZE 2.7K 5% 1/16W
R303	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R321	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R322	1-216-834-11	METAL GLAZE 12K 5% 1/16W
R323	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R324	1-216-821-11	METAL GLAZE 1K 5% 1/16W

Ref.No.	Part No.	Description			
R401	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R402	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R403	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R404	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R405	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R406	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R411	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R412	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R413	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R414	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R415	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R416	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R421	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R422	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R423	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R424	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R425	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R426	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R431	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R432	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R433	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R434	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R435	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R436	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R443	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R444	1-218-348-11	METAL GLAZE	110K	5%	1/16W
R445	1-218-347-11	METAL GLAZE	91K	5%	1/16W
R446	1-216-848-11	METAL GLAZE	180K	5%	1/16W
R447	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R451	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R453	1-216-150-00	METAL GLAZE	10	5%	1/8W
R501	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R502	1-216-150-00	METAL GLAZE	10	5%	1/8W
R503	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R504	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R505	1-216-809-11	METAL GLAZE	100	5%	1/16W
R506	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R507	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R508	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R509	1-216-865-11	METAL GLAZE	3K	5%	1/16W
R512	1-216-847-11	METAL GLAZE	150K	5%	1/16W
R513	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R514	1-216-850-11	METAL GLAZE	270K	5%	1/16W
R515	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R516	1-218-273-11	METAL GLAZE	510K	5%	1/16W

Ref.No.	Part No.	Description			
R517	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R518	1-216-848-11	METAL GLAZE	180K	5%	1/16W
R519	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R520	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R521	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R522	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R523	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R526	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R527	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R530	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R531	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R532	1-216-150-00	METAL GLAZE	10	5%	1/8W
R631	1-216-192-00	METAL GLAZE	560	5%	1/8W
R901	1-216-833-11	METAL GLAZE	10K	5%	1/16W
RV401	1-238-663-11	RES, ADJ, CERMER 4.7K			
RV501	1-237-005-11	RES, ADJ, METAL GLAZE 22K			
RV502	1-238-206-11	RES, ADJ, METAL GLAZE 47K			
RV503	1-238-665-11	RES, ADJ, CERMET 22K			
RV504	1-238-665-11	RES, ADJ, CERMET 22K			
RV505	1-238-662-11	RES, ADJ, CERMET 2.2K			
SW621	1-571-754-11	SWITCH, PUSH (1 KEY)(SHUTTER DETECT)			
SW622	1-571-754-11	SWITCH, PUSH (1 KEY)(DISC DETECT)			
SW631	1-554-938-11	SWITCH, LEAF (LINIT)			
SW632	1-554-938-11	SWITCH, LEAF (LOCKGEAR DETECT)			
TH441	1-808-656-11	THERMISTOR			
TH442	1-808-656-11	THERMISTOR			
TH501	1-808-656-11	THERMISTOR			
X1	1-577-273-11	OSCILLATOR, CERAMIC (4.19MHz)			
X501	1-577-274-11	VIBRATOR, CRYSTAL (16.93MHz)			

CDX-R79L

SONY

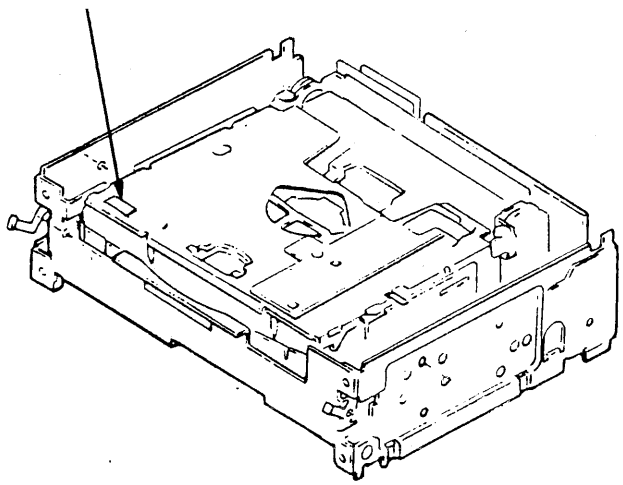
SERVICE MANUAL

UK Model

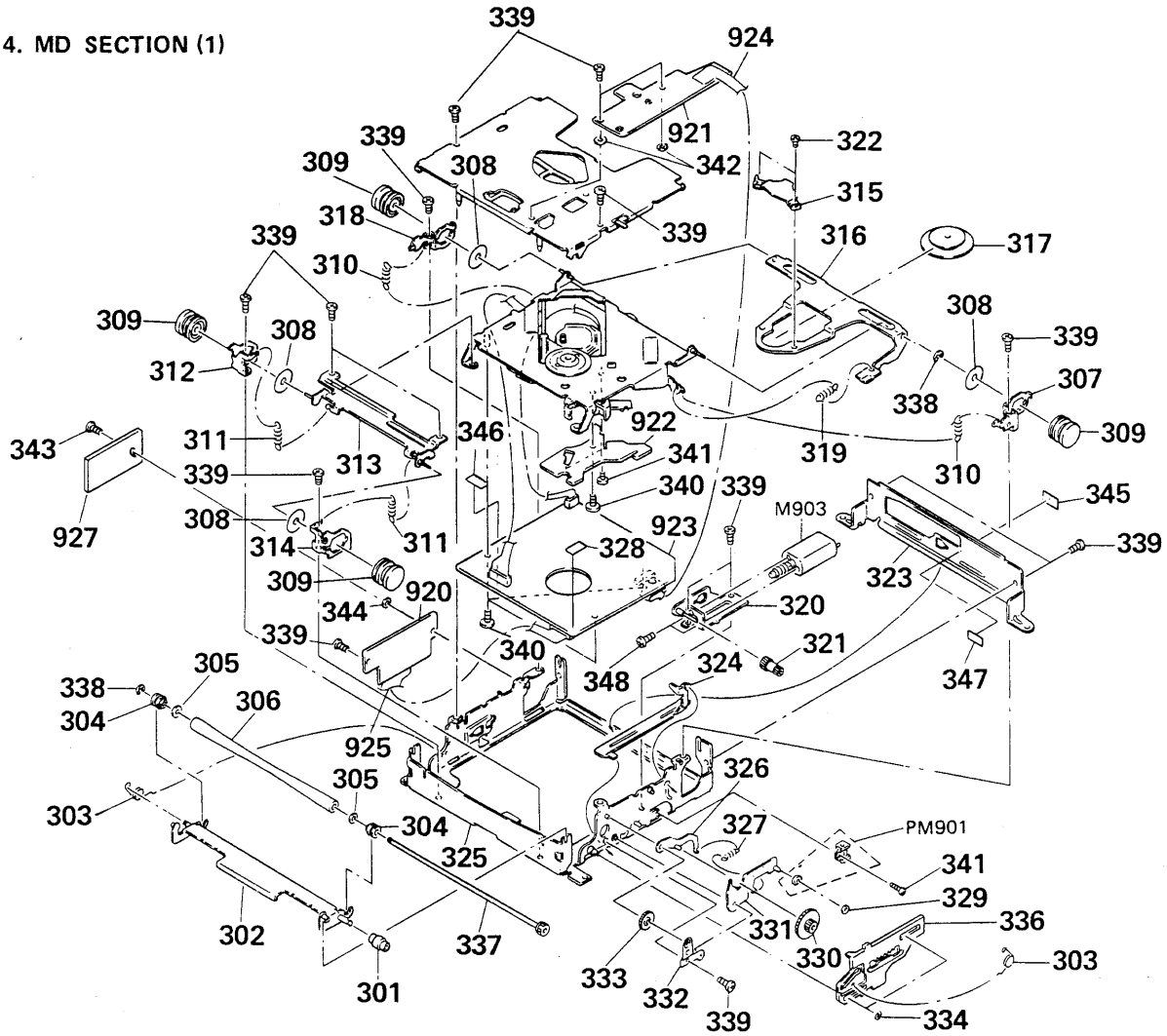
SUPPLEMENT-2

Because of this change, MD section of serial numbers 200,001.
Remove the cover of set, there is serial number label at the portion of arrow.

SERIAL NUMBER LABEL



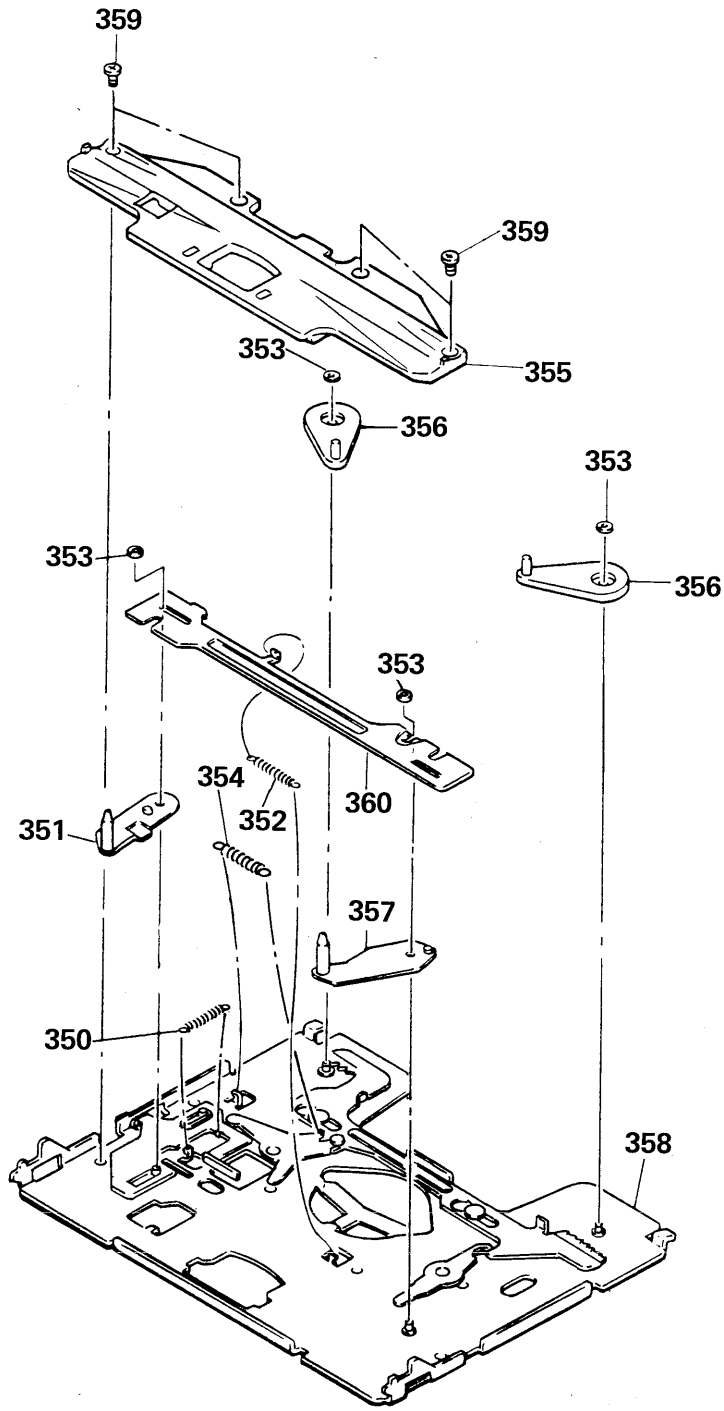
4. MD SECTION (1)



No.	Part No.	Description	Remarks
301	3-351-495-01	SLEEVE (2)	
302	*X-3351-422-1	BRACKET (ROLLER) ASSY	
303	3-351-437-01	SPRING (ROLLER)	
304	3-351-416-01	BEARING (ROLLER SHAFT)	
305	3-701-438-21	WASHER	
306	3-323-231-02	ROLLER (LOWER)	
307	*3-351-494-01	BRACKET (DAMPER C)	
308	3-323-263-01	WASHER, TEFLON	
309	3-330-929-01	DAMPER (S), HYPER	
310	3-351-445-01	SPRING (FLOATING C,D), TENSION	
311	3-351-444-01	SPRING (FLOATING A,B), TENSION	
312	*3-351-493-01	BRACKET (DAMPER B)	
313	*X-3351-423-1	BRACKET (F) ASSY	
314	*3-351-492-01	BRACKET (DAMPER A)	
315	3-342-625-01	RETAINER (S2), THRUST	
316	*3-351-453-01	ARM, CHUCKING	
317	3-348-558-01	PLATE (F), CHUCK	
318	*3-351-411-01	BRACKET (DAMPER D)	
319	3-351-443-01	SPRING (CHUCKING), TENSION	
320	*X-3351-419-1	BRACKET (M) ASSY	
321	3-351-498-01	GEAR (B)	
322	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
323	*3-351-483-01	BRACKET (REAR A)	
324	*X-3351-418-1	LEVER (CH RELEASE) ASSY	
325	*X-3351-417-2	CHASSIS (MAIN) ASSY	
326	*X-3351-420-1	LEVER (GEAR C) ASSY	
327	3-351-463-01	SPRING (SW LEVER 2), TENSION	
328	*3-351-466-01	SHEET (TH1)	

No.	Part No.	Description	Remarks
329	3-315-384-11	WASHER, STOPPER	
330	3-351-438-01	GEAR, CAM	
331	*X-3351-421-1	LEVER (SW) ASSY	
332	*3-351-482-01	RETAINER (SIDE GEAR)	
333	3-351-414-01	GEAR (C)	
334	3-578-224-00	WASHER	
336	3-351-456-01	LEVER (L, E)	
337	X-3351-413-1	SHAFT (ROLLER)	
338	7-624-104-04	STOP RING 2.0, TYPE -E	
339	7-627-553-28	SCREW, PRECISION +P 2X2.5	
340	7-621-772-08	SCREW +B 2X3	
341	7-627-850-57	SCREW, PRECISION +P 1.4X3.5	
342	3-892-464-01	SPACER, PC BOARD	
343	7-627-554-27	SCREW, PRECISION +P 2X6	
344	3-345-381-02	SPACER	
345	*3-351-470-01	SHEET	
346	*3-351-467-01	SHEET (TH2)	
347	*3-351-464-01	SHEET (SM)	
348	7-627-553-37	SCREW, PRECISION +P 2X3	
920	*1-628-911-11	PC BOARD, TRANSLATION	
921	*1-628-910-11	PC BOARD, SENSOR	
922	*1-628-912-11	PC BOARD, LED	
923	*A-3260-882-A	MOUNTED PCB, MD MAIN	
924	1-629-581-11	PC BOARD, SENSOR FILEXIBLE	
925	1-629-582-11	PC BOARD, TRANSLATION FLEXIBLE	
927	*1-628-450-11	METAL SW BOARD	
M903	A-3249-213-A	GEAR (A) ASSY (LOADING)	
PM901	1-454-461-11	SOLENOID, PLUNGER	

5. MD SECTION (2)



No.	Part No.	Description	Remarks
350	3-351-448-01	SPRING (LOCK LEVER), TENSION	
351	*X-3351-426-1	LEVER (D DETECTION R2) ASSY	
352	3-351-447-02	SPRING (JOINT F), TENSION	
353	3-578-224-00	WASHER	
354	3-351-446-01	SPRING (JOINT R), TENSION	

No.	Part No.	Description	Remarks
355	3-351-496-01	GUIDE (DISK 2)	
356	3-351-432-01	GEAR (DS)	
357	*X-3351-425-1	LEVER (D DETECTION L2) ASSY	
358	*X-3351-424-1	CHASSIS (T2) ASSY	
359	7-627-553-37	SCREW, PRECISION +P 2X3	
360	*3-351-489-02	JOINT (F2)	

9-953-797-12
(Including 9-953-797-81
9-953-797-82
9-953-797-91)

Sony Corporation
Mobile Electronics Group

English
90K0207-1(2)
Printed in Japan
©1989.5
Published by Customer Relations and Service Group